

Deaths

There were 24,968 resident deaths recorded in Kansas during 2002, an increase of 1.5 percent from the 2001 total of 24,590. ([Table 30](#))

Elk, Republic and Greenwood counties had the highest five-year (1998-2002) county death rates of 18.4, 18.3, and 17.0 deaths per 1,000 population respectively. Riley, Douglas, and Finney counties had the lowest five-year death rates of 4.9, 5.4, and 5.4 deaths per 1,000 population respectively. ([Table 30](#), [Figure 26](#))

Belleville, Eureka, and Herrington had the highest five-year city death rates (1998-2002) of 28.7, 22.3, and 20.2 respectively. Olathe, Lawrence, and Shawnee experienced the lowest five-year city death rates of 4.6, 4.8, and 5.3 respectively. ([Table 31](#))

The Kansas death rate in 2002 was 9.2 deaths per 1,000 population, which was 9.5 percent higher than the estimated U.S. rate of 8.4 deaths per 1,000 population. ([Figure 27](#))

Of all fetal deaths in 2002, 67.1 percent were attributed to conditions originating in the perinatal period, 19.9 percent were attributed to symptoms, signs and abnormal findings and 13.0 percent to congenital anomalies. ([Table 32](#))

Examining the components that constitute perinatal period III mortality, the numbers of fetal deaths and hebdomadal deaths declined 61.1 percent and 62.2 percent respectively from 1972 to 2002. Caution should be used in interpreting these decreases due to the relatively small number of occurrences. In 2002, there were 301 perinatal period III deaths, representing a death rate of 7.6 deaths per 1,000 live births plus fetal deaths. This rate has decreased 67.5 percent from the 1972 rate of 23.4. ([Tables 33](#) and [34](#), [Figure 28](#))

A total of 282 infant deaths occurred to Kansas residents in 2002. The overall infant death rate for 2002 was 7.2 infant deaths per 1,000 live births. For comparison, the 2002 rate (7.2) represents a decrease of 58.1 percent from the rate of 17.2 in 1972. The white infant death rate was 6.5 deaths per 1,000 live births in 2002, a decrease of 60.6 percent from the rate of 16.5 in 1972. The black infant death rate in 2002 was 15.3, a decrease of 39.3 percent from the rate of 25.2 in 1972. ([Figure 29](#), [Tables 35](#) and [36](#))

During the five-year period, 1998-2002, the infant death rate for Kansas was 7.1. Elk county had the highest infant death rate (20.0) during this time period. Of those counties reporting infant deaths, Coffey county had the lowest rate (2.0). Eighteen counties had no infant deaths. ([Table 36](#))

Of all infant deaths in 2002, 48.2 percent were attributed to conditions originating in the perinatal period, 22.3 percent were attributed to congenital anomalies, 16.3 percent to sudden infant death syndrome and 13.2 percent to all other causes. ([Table 37](#))

Deaths (Cont.)

For each year from 1991 to 2002 there were five or fewer maternal deaths among Kansas residents. The maternal death rate for Kansas in 2002 was 0.5 deaths per 10,000 live births, a 16.7 percent decrease from the 1972 rate of 0.6. ([Figure 31](#))

The Kansas age-adjusted death rate per 1,000 standard U.S. 2000 population was consistently below that of the U.S. from 1993-2000. ([Table 40](#), [Figure 32](#))

The state's 2002 age-adjusted death rate for males (10.1) was 40.3 percent higher than the rate of 7.2 for females. ([Table 40](#))

The average age at death of Kansas residents in 2002 was 74.4 years, a 1.8 percent increase from the average age at death of 73.1 years in 1992. ([Table 41](#))

The average age at death for the white population in 2002 was 75.1 years, eleven years older than that of the black population, whose average age at death was 64.1 years. ([Table 42](#))

The two leading causes of death in Kansas in 2002, heart disease and malignant neoplasms, had average ages at death of 79.2 and 71.6 years respectively. Atherosclerosis, with an average age at death of 86.7 years, had the highest average age at death of any of the leading causes of death. ([Table 45](#))

The average age at death for male unintentional injury victims for 1992 and 2002 was 43.8 and 45.5 respectively, while for females the average age was 53.8 and 57.5 years respectively. For this time period, the average age at death increased for female unintentional injury victims 6.9 percent while for male unintentional injury victims it increased 3.9 percent. ([Table 45](#))

The cause-specific death rate for Alzheimer's Disease in Kansas was 27.7 deaths per 100,000 population in 2002. The rate for females (38.0) was more than twice as high as the rate for males (17.1). ([Table 45](#))

The cancer death rate for 2002 was 196.8 deaths per 100,000 population, 0.8 percent lower than the rate of 198.4 in 1992. ([Tables 45](#) and [46](#))

In 2002, the unintentional injury death rate was 41.4 deaths per 100,000 population, 22.1 percent higher than the rate of 33.9 in 1992. ([Tables 45](#) and [46](#))

The age-adjusted death rate for the leading cause of death, heart disease, was 219.2, and for cancer, the second leading cause of death, the age-adjusted death rate was 187.5 per 100,000 standard U.S. 2000 population. Together, these two causes accounted for almost 50 percent of all Kansas resident deaths. ([Table 46](#))

Deaths (Cont.)

Heart disease reached a high of 393.4 deaths per 100,000 population in 1973 and gradually declined to 244.5 deaths per 100,000 population in 2002. Conversely, cancer rates steadily increased from 140.6 to 207.1 deaths per 100,000 population from 1956 to 1996, but have declined since 1996, to 196.8 in 2002. ([Figure 33](#))

In 2002, Kansans died from cerebrovascular disease at slightly more than half the rate of forty years ago, with the death rates for this disease going from 127.7 in 1962 to 67.7 in 2002. The death rate for unintentional injury also declined, going from 60.8 in 1962 to 41.4 in 2002, a 31.9 percent decrease. ([Figure 33](#))

In 2002, unintentional injuries were the leading cause of death for Kansas residents 1-44 years of age. ([Figure 34](#))

In 2002, cancer of the respiratory and intrathoracic organs, digestive organs and breast were the leading causes of cancer deaths in women. ([Table 48](#))

The dominant occupations for deaths due to unintentional injuries, suicides and homicides were operators, fabricators and laborers. ([Table 52](#))

Mortality in Kansas was responsible for 198,887 years of potential life lost in 2002. Cancer was the second leading cause of death in Kansas, but accounted for the most years of potential life lost (44,266). Unintentional injuries represented nearly two times the years of potential life lost among men (21,659 years) compared to women (10,314 years). ([Table 54](#), [Figure 35](#))

Table 30
 Deaths By Number And Rate*
 By County Of Residence And By Peer Group**
 Kansas, 1998-2002

County of Residence	Year										5-Year Rate	
	1998		1999		2000		2001		2002			
	Number	Rate										
Kansas.....	23,928	9.1	24,380	9.2	24,676	9.2	24,590	9.1	24,968	9.2	9.2	
Allen.....	183	12.6	195	13.5	169	11.7	192	13.5	168	11.8	12.6	
Anderson.....	103	12.8	91	11.2	104	12.8	99	12.1	109	13.4	12.5	
Atchison.....	203	12.0	190	11.3	183	10.9	172	10.3	208	12.5	11.4	
Barber.....	93	17.4	74	14.1	73	13.8	66	12.8	77	15.1	14.6	
Barton.....	311	11.3	350	12.2	351	12.4	315	11.3	294	10.6	11.6	
Bourbon.....	222	14.5	196	13.1	221	14.4	186	12.1	225	14.8	13.8	
Brown.....	151	13.6	134	12.3	135	12.6	129	12.1	149	14.2	13.0	
Butler.....	482	7.8	512	8.2	580	9.8	492	8.2	529	8.7	8.5	
Chase.....	46	15.6	53	18.6	37	12.2	40	13.2	41	14.0	14.7	
Chautauqua.....	68	15.6	56	13.1	65	14.9	76	17.8	87	20.7	16.4	
Cherokee.....	274	12.1	259	11.6	281	12.4	261	11.7	258	11.8	11.9	
Cheyenne.....	42	13.2	33	10.2	43	13.6	42	13.5	40	12.8	12.7	
Clark.....	42	17.8	37	15.8	27	11.3	22	9.3	38	16.0	14.0	
Clay.....	118	12.9	117	13.0	107	12.1	99	11.3	126	14.5	12.8	
Cloud.....	161	16.1	150	15.0	175	17.0	154	15.4	160	16.1	15.9	
Coffey.....	106	12.2	84	9.6	94	10.6	129	14.6	110	12.4	11.9	
Comanche.....	18	8.9	40	20.5	31	15.8	25	12.7	47	23.7	16.3	
Cowley.....	405	11.2	475	12.9	439	12.1	437	12.2	441	12.1	12.1	
Crawford.....	479	13.2	456	12.5	483	12.6	444	11.7	439	11.5	12.3	
Decatur.....	58	16.8	49	14.5	47	13.5	59	17.2	56	16.4	15.7	
Dickinson.....	270	13.7	274	13.9	226	11.7	224	11.7	287	15.0	13.2	
Doniphan.....	87	11.1	82	10.3	108	13.1	90	10.8	70	8.5	10.8	
Douglas.....	514	5.5	498	5.1	538	5.4	549	5.5	560	5.5	5.4	
Edwards.....	57	17.2	56	17.1	45	13.0	40	12.0	48	14.4	14.7	
Elk.....	57	17.0	65	19.2	72	22.1	56	17.6	51	16.3	18.4	
Ellis.....	240	9.1	241	9.2	229	8.3	249	9.1	263	9.6	9.1	
Ellsworth.....	91	14.5	70	11.3	103	15.8	93	14.3	94	14.6	14.1	
Finney.....	212	5.8	193	5.2	225	5.6	207	5.2	211	5.3	5.4	
Ford.....	244	8.3	274	9.3	262	8.1	295	9.1	282	8.6	8.7	
Franklin.....	271	10.9	231	9.2	245	9.9	237	9.5	238	9.4	9.8	
Geary.....	232	9.1	229	9.2	197	7.0	204	7.6	209	7.9	8.2	
Gove.....	45	14.7	48	15.9	32	10.4	41	13.6	38	12.7	13.5	
Graham.....	41	12.8	38	12.2	43	14.6	38	13.4	42	14.8	13.6	
Grant.....	59	7.4	51	6.5	64	8.1	43	5.5	52	6.6	6.8	
Gray.....	54	9.7	34	6.1	56	9.5	49	8.2	70	11.6	9.0	
Greeley.....	24	14.1	13	7.9	19	12.4	15	10.0	22	14.9	11.9	
Greenwood.....	146	17.9	136	17.1	113	14.7	136	17.5	136	17.8	17.0	
Hamilton.....	30	12.8	32	13.5	31	11.6	32	12.0	31	11.7	12.3	
Harper.....	81	12.6	108	17.1	107	16.4	96	15.2	106	16.9	15.6	
Harvey.....	344	10.0	353	10.3	367	11.2	323	9.8	347	10.4	10.3	
Haskell.....	22	5.5	38	9.4	30	7.0	36	8.4	27	6.3	7.3	
Hodgeman.....	25	11.3	25	11.2	14	6.7	26	12.1	31	14.4	11.1	
Jackson.....	141	11.6	144	11.8	130	10.3	141	11.1	131	10.3	11.0	
Jefferson.....	126	6.9	166	9.1	160	8.7	150	8.1	165	8.8	8.3	
Jewell.....	52	13.4	66	17.4	67	17.7	56	15.6	51	14.6	15.7	
Johnson.....	2,455	5.7	2,689	6.1	2,661	5.9	2,855	6.1	2,861	6.0	6.0	
Kearny.....	29	6.9	48	11.6	38	8.4	28	6.1	51	11.2	8.8	
Kingman.....	86	10.1	122	14.1	99	11.4	114	13.4	122	14.5	12.7	
Kiowa.....	38	11.0	45	13.4	42	12.8	47	15.0	25	8.0	12.0	
Labette.....	298	12.9	276	12.0	324	14.2	303	13.5	302	13.6	13.2	
Lane.....	25	11.0	35	16.1	20	9.3	18	8.6	39	19.5	12.9	
Leavenworth.....	508	7.1	518	7.2	443	6.4	562	8.0	524	7.4	7.2	
Lincoln.....	58	17.4	48	14.4	54	15.1	73	20.6	48	13.6	16.2	
Linn.....	122	13.3	130	14.0	114	11.9	129	13.3	106	11.0	12.7	
Logan.....	36	12.1	37	12.6	50	16.4	44	14.9	37	12.3	13.7	

Table 30
 Deaths By Number And Rate*
 By County Of Residence And By Peer Group**
 Kansas, 1998-2002

County of Residence	Year										5-Year Rate	
	1998		1999		2000		2001		2002			
	Number	Rate										
Lyon.....	294	8.7	280	8.3	323	9.0	280	7.9	290	8.1	8.4	
Marion.....	173	12.7	188	13.9	210	15.7	136	10.1	211	15.9	13.7	
Marshall.....	164	14.9	155	14.2	139	12.7	146	13.6	134	12.7	13.6	
McPherson.....	344	12.0	336	11.7	344	11.6	336	11.3	380	12.9	11.9	
Meade.....	53	12.0	53	12.0	53	11.4	38	8.2	48	10.4	10.8	
Miami.....	247	9.3	228	8.4	265	9.3	253	8.8	254	8.8	8.9	
Mitchell.....	111	16.0	100	14.4	110	15.9	82	12.1	91	13.6	14.4	
Montgomery.....	473	12.8	472	12.8	486	13.4	472	13.3	487	13.8	13.2	
Morris.....	82	13.3	75	12.1	83	13.6	77	12.6	73	12.0	12.7	
Morton.....	34	9.9	22	6.3	33	9.4	27	8.0	32	9.5	8.6	
Nemaha.....	154	15.2	138	13.6	158	14.7	169	16.1	136	13.0	14.5	
Neosho.....	204	12.2	205	12.3	207	12.2	192	11.5	193	11.6	12.0	
Ness.....	44	12.2	39	10.9	61	17.7	42	12.6	47	14.2	13.5	
Norton.....	89	15.5	83	14.7	81	13.6	65	11.1	64	10.9	13.2	
Osage.....	166	9.7	181	10.5	171	10.2	191	11.3	184	10.9	10.5	
Osborne.....	71	15.1	79	17.2	74	16.6	70	16.1	70	16.5	16.3	
Ottawa.....	66	11.2	95	16.1	68	11.0	88	14.2	77	12.2	12.9	
Pawnee.....	82	11.0	85	11.8	102	14.1	89	12.8	92	13.2	12.6	
Phillips.....	79	13.0	83	13.9	84	14.0	85	14.5	119	20.3	15.1	
Pottawatomie.....	165	8.8	176	9.3	173	9.5	169	9.2	161	8.7	9.1	
Pratt.....	122	12.6	115	12.1	128	13.3	129	13.5	121	12.7	12.8	
Rawlins.....	39	12.5	42	13.9	48	16.2	41	14.1	34	11.8	13.7	
Reno.....	685	10.8	697	10.9	699	10.8	703	10.9	701	11.0	10.9	
Republic.....	102	16.7	107	17.9	109	18.7	110	19.5	103	18.8	18.3	
Rice.....	130	12.5	132	12.9	136	12.6	131	12.4	123	11.7	12.4	
Riley.....	261	4.1	323	5.1	296	4.7	331	5.5	326	5.3	4.9	
Rooks.....	70	12.4	83	14.8	70	12.3	80	14.3	72	13.1	13.4	
Rush.....	51	14.9	60	17.8	54	15.2	61	17.5	66	18.9	16.9	
Russell.....	89	11.8	114	15.3	106	14.4	98	13.7	94	13.3	13.7	
Saline.....	500	9.7	480	9.3	493	9.2	506	9.4	467	8.7	9.3	
Scott.....	62	12.4	55	11.1	58	11.3	47	9.4	64	13.0	11.4	
Sedgwick.....	3,640	8.1	3,477	7.7	3,626	8.0	3,684	8.1	3,847	8.3	8.0	
Seward.....	131	6.6	124	6.2	160	7.1	151	6.7	126	5.5	6.4	
Shawnee.....	1,617	9.8	1,721	10.1	1,757	10.3	1,785	10.5	1,702	10.0	10.1	
Sheridan.....	26	9.5	41	15.3	27	9.6	46	16.9	35	13.3	12.9	
Sherman.....	72	11.1	77	11.8	73	10.8	67	10.3	79	12.3	11.3	
Smith.....	70	15.3	81	17.7	76	16.8	79	17.8	60	13.7	16.3	
Stafford.....	82	16.4	70	14.0	74	15.5	70	14.7	81	17.4	15.6	
Stanton.....	23	10.2	18	8.1	26	10.8	15	6.2	21	8.7	8.8	
Stevens.....	37	6.9	38	7.0	52	9.5	63	11.7	38	7.1	8.4	
Sumner.....	297	11.0	292	10.7	308	11.9	247	9.6	270	10.6	10.8	
Thomas.....	75	9.3	81	10.2	78	9.5	74	9.2	78	9.6	9.6	
Trego.....	49	14.9	60	18.4	49	14.8	45	14.1	46	14.6	15.4	
Wabaunsee.....	80	12.0	80	12.2	75	10.9	77	11.3	55	8.2	10.9	
Wallace.....	17	9.4	20	11.1	19	10.9	21	12.3	21	12.4	11.2	
Washington.....	93	14.3	98	15.1	99	15.3	109	17.2	96	15.3	15.4	
Wichita.....	23	8.7	22	8.5	26	10.3	21	8.3	29	11.6	9.5	
Wilson.....	148	14.5	152	14.7	169	16.4	138	13.5	134	13.2	14.5	
Woodson.....	61	15.3	59	15.1	55	14.5	65	17.3	69	18.8	16.2	
Wyandotte.....	1,496	9.8	1,624	10.7	1,532	9.7	1,551	9.9	1,588	10.0	10.0	
Peer Group												
Frontier	1,316	13.3	1,379	14.2	1,331	13.5	1,274	13.2	1,322	13.8	13.6	
Rural	3,732	12.9	3,728	13.0	3,813	13.1	3,718	12.9	3,789	13.2	13.0	
Densely -Settled Rural	4,382	10.4	4,485	10.5	4,541	10.5	4,367	10.1	4,488	10.4	10.4	
Semi-Urban	4,776	9.0	4,779	9.0	4,877	9.1	4,807	9.0	4,811	9.0	9.0	
Urban	9,722	7.5	10,009	7.6	10,114	7.6	10,424	7.7	10,558	7.7	7.6	

* Rate per 1,000 population

** See Technical Notes for Peer Group definition.

Table 31
Deaths By Number And Rate*
By Selected City Of Residence
Kansas, 1998-2002

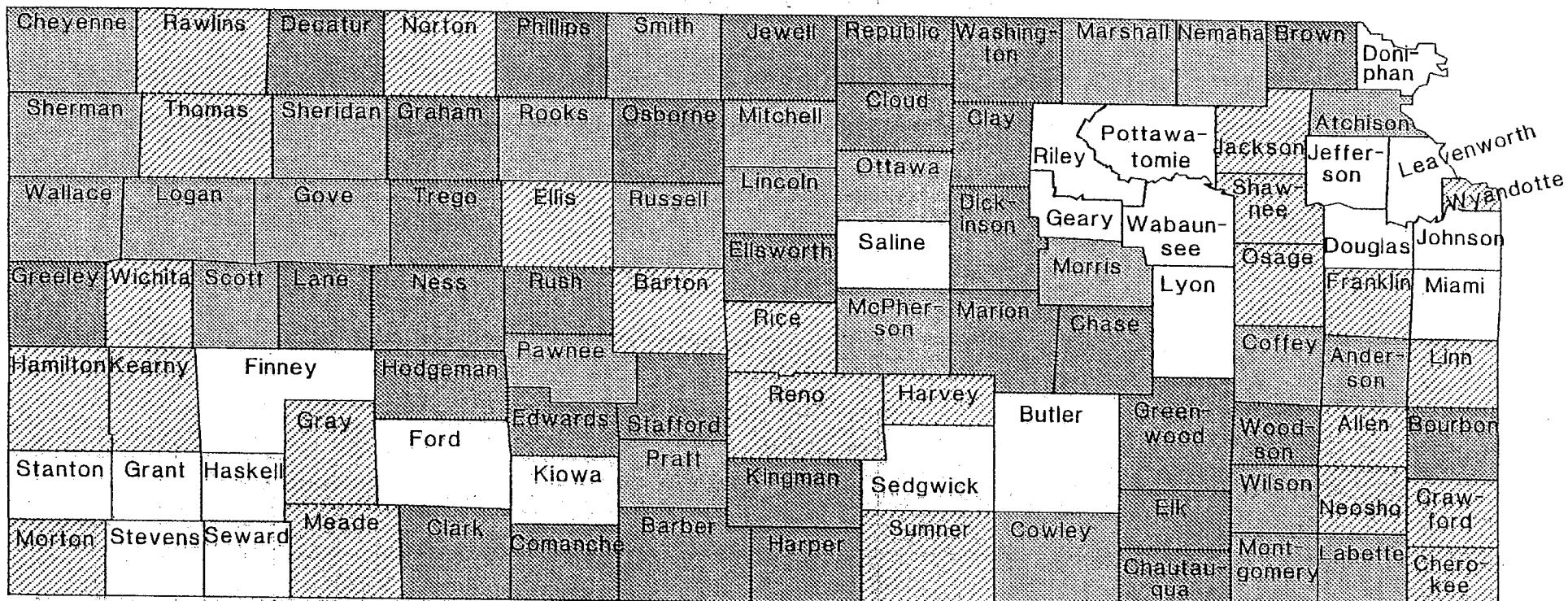
City of Residence											5-Year Rate	
	1998		1999		2000		2001		2002			
	Number	Rate										
Abilene.....	101	15.5	108	16.6	97	14.8	85	13.1	120	18.6	15.7	
Andover.....	38	7.6	53	10.6	62	9.3	64	8.9	56	7.2	8.7	
Anthony.....	29	12.6	42	19.1	43	17.6	31	13.1	42	17.9	16.1	
Arkansas City.....	158	12.5	171	13.4	194	16.2	198	16.9	183	15.2	14.8	
Atchison.....	160	15.1	148	14.0	141	13.8	130	12.8	160	15.8	14.3	
Augusta.....	111	11.6	109	11.1	129	15.3	82	9.7	118	13.9	12.3	
Baldwin City.....	36	10.6	15	4.2	34	10.0	35	10.0	46	12.9	9.5	
Baxter Springs.....	68	14.8	69	15.0	74	16.1	63	14.0	55	12.5	14.5	
Belleville.....	67	27.9	60	26.1	74	33.1	71	32.8	50	23.8	28.7	
Beloit.....	65	16.7	63	16.2	73	18.2	46	11.7	54	14.0	15.4	
Bonner Springs.....	47	7.8	68	11.3	50	7.4	61	9.0	67	9.8	9.1	
Burlington.....	39	13.9	26	9.3	43	15.4	45	16.3	38	13.6	13.7	
Chanute.....	133	14.3	124	13.3	129	13.7	132	14.3	119	13.0	13.7	
Cherryvale.....	39	16.3	39	17.0	36	15.1	40	17.1	27	11.7	15.4	
Clay Center.....	71	15.4	75	16.7	66	14.5	58	12.8	81	18.1	15.5	
Coffeyville.....	180	14.6	165	13.5	179	16.2	189	17.6	189	17.8	15.9	
Colby.....	55	10.4	69	13.3	59	10.8	54	10.1	59	11.0	11.1	
Columbus.....	47	13.8	64	18.8	57	16.8	52	15.5	60	18.2	16.6	
Concordia.....	103	18.4	92	16.4	110	19.3	96	17.3	82	14.9	17.3	
Derby.....	129	7.9	126	7.7	114	6.4	127	7.0	127	6.7	7.1	
Dodge City.....	185	8.2	202	8.9	188	7.5	203	8.1	210	8.3	8.2	
Edwardsville.....	56	15.1	62	16.8	48	11.6	54	12.4	55	12.4	13.7	
El Dorado.....	149	10.6	170	11.9	167	13.9	164	13.7	168	13.3	12.7	
Ellinwood.....	21	9.5	27	11.7	30	13.9	23	10.8	34	16.1	12.4	
Emporia.....	220	8.8	222	9.0	253	9.5	228	8.6	231	8.6	8.9	
Eudora.....	54	15.9	46	12.8	53	12.3	55	12.5	45	9.3	12.6	
Eureka.....	73	23.5	68	22.7	53	18.2	70	23.8	68	23.5	22.3	
Fairway.....	29	5.8	31	6.0	30	7.6	34	8.7	27	6.9	7.0	
Fort Scott.....	153	18.0	140	16.7	168	20.2	121	14.6	161	19.8	17.9	
Fredonia.....	54	20.8	50	19.2	55	21.2	44	17.2	46	18.1	19.3	
Frontenac.....	52	20.0	35	13.5	42	14.0	50	16.7	48	15.7	16.0	
Galena.....	51	14.6	42	12.0	52	15.8	40	12.3	43	13.5	13.6	
Garden City.....	178	6.7	165	6.0	196	6.9	179	6.4	178	6.4	6.5	
Garnett.....	63	19.1	44	13.3	61	18.1	61	18.0	63	18.7	17.4	
Girard.....	47	16.2	52	17.9	68	24.5	38	13.9	36	13.2	17.1	
Goodland.....	66	14.0	58	12.3	63	12.7	51	10.7	68	14.5	12.8	
Great Bend.....	190	13.1	214	14.3	193	12.6	189	12.5	175	11.6	12.8	
Hays.....	170	9.4	166	9.2	155	7.7	153	7.7	198	9.9	8.8	
Haysville.....	73	7.8	91	9.7	73	8.6	91	10.0	85	9.1	9.0	
Herington.....	64	22.9	53	18.9	39	15.2	55	21.9	55	22.0	20.2	
Hesston.....	51	15.5	49	14.8	48	13.7	48	13.6	47	13.1	14.1	
Hiawatha.....	52	14.4	52	14.9	58	17.0	51	15.0	58	17.2	15.7	
Hillsboro.....	40	13.8	43	15.4	54	18.9	29	10.1	57	20.1	15.7	
Hoisington.....	41	13.7	40	12.9	50	16.8	46	15.8	38	12.8	14.4	
Holton.....	65	19.1	68	20.0	56	16.7	55	16.5	58	17.6	18.0	
Hugoton.....	28	8.2	27	7.9	39	10.5	48	13.2	32	8.9	9.7	
Hutchinson.....	486	12.2	484	12.1	515	12.6	505	12.5	530	13.0	12.5	
Independence.....	133	14.0	142	15.1	135	13.7	147	15.3	146	15.3	14.7	
Iola.....	86	13.7	94	14.9	102	16.2	98	15.8	92	14.9	15.1	
Junction City.....	192	11.2	190	11.2	170	9.0	148	8.2	174	9.8	9.9	
Kansas City.....	1,371	9.7	1,485	10.6	1,418	9.7	1,422	9.7	1,460	9.9	9.9	

Table 31
 Deaths By Number And Rate*
 By Selected City Of Residence
 Kansas, 1998-2002

City of Residence											5-Year Rate	
	1998		1999		2000		2001		2002			
	Number	Rate										
Kingman.....	42	12.7	72	21.8	48	14.2	50	15.1	62	19.0	16.6	
Lansing.....	61	7.7	56	7.1	60	6.5	63	6.7	81	8.5	7.3	
Larned.....	59	13.4	70	16.3	77	18.2	66	16.2	80	19.8	16.8	
Lawrence.....	360	4.8	371	4.7	381	4.8	392	4.9	399	4.9	4.8	
Leavenworth.....	280	6.6	297	6.9	248	7.0	310	8.7	273	7.7	7.4	
Leawood.....	144	6.1	161	6.6	158	5.7	149	5.3	171	6.0	5.9	
Lenexa.....	199	4.8	246	5.8	281	7.0	255	6.3	207	5.0	5.8	
Liberal.....	117	6.6	112	6.3	144	7.3	136	7.0	111	5.5	6.5	
Lindsborg.....	57	17.8	55	16.7	62	18.7	45	13.5	47	14.3	16.2	
Lyons.....	58	16.1	60	16.7	66	17.7	49	13.4	57	15.8	15.9	
Manhattan	191	5.1	238	6.4	228	5.1	267	6.2	257	5.9	5.7	
Marysville.....	57	17.8	58	18.7	51	15.6	55	17.2	42	13.4	16.5	
McPherson.....	120	9.2	137	10.5	147	10.7	139	10.1	165	12.0	10.5	
Medicine Lodge.....	44	20.0	39	17.7	34	15.5	28	13.2	37	17.7	16.8	
Merriam.....	95	6.6	92	6.3	91	8.3	88	8.0	80	7.4	7.3	
Mission.....	88	7.7	78	6.6	86	8.8	83	8.6	78	8.1	8.0	
Mission Hills.....	24	5.7	19	4.4	21	5.8	24	6.7	26	7.3	6.0	
Mulvane	56	10.8	48	9.2	47	9.1	43	8.2	56	10.2	9.5	
Neodesha.....	49	17.5	51	17.6	56	19.7	62	22.1	55	19.9	19.4	
Newton.....	192	10.4	197	10.7	212	12.3	188	10.9	197	11.0	11.1	
Norton.....	57	19.7	62	21.4	54	17.9	45	15.3	52	17.6	18.4	
Olathe.....	371	4.8	398	5.1	394	4.2	441	4.6	457	4.5	4.6	
Osage City.....	34	11.3	51	17.0	38	12.5	51	16.8	48	15.9	14.7	
Osawatomie.....	80	15.4	60	11.3	80	17.2	81	17.5	68	14.7	15.2	
Ottawa.....	173	14.4	143	11.7	146	12.2	132	11.1	136	11.4	12.2	
Overland Park.....	844	6.2	938	6.8	930	6.2	1,033	6.7	1,036	6.5	6.5	
Paola.....	70	13.2	62	11.5	67	13.4	69	13.7	56	11.1	12.6	
Parsons.....	173	14.9	148	12.9	206	17.9	172	15.1	189	16.7	15.5	
Phillipsburg.....	38	14.6	42	16.2	47	17.6	38	14.6	56	21.6	16.9	
Pittsburg.....	224	12.3	223	12.3	224	11.6	229	12.0	219	11.5	11.9	
Plainville.....	26	13.0	37	18.5	24	11.8	39	19.5	36	18.5	16.3	
Prairie Village.....	193	6.9	201	7.0	196	8.9	207	9.4	194	8.9	8.2	
Pratt.....	93	13.9	89	13.5	105	16.0	109	16.8	104	16.0	15.2	
Roeland Park.....	47	5.1	55	5.7	38	5.6	49	7.2	46	6.9	6.1	
Russell.....	60	13.0	70	15.2	64	13.6	68	14.9	65	14.5	14.2	
Salina.....	455	10.3	445	10.1	452	9.9	461	10.1	410	8.9	9.9	
Scott City.....	50	13.9	51	14.6	54	14.0	45	12.0	56	15.0	13.9	
Shawnee.....	231	5.0	265	5.6	238	5.0	278	5.5	278	5.3	5.3	
Topeka.....	1,399	11.4	1,477	11.6	1,524	12.5	1,534	12.6	1,480	12.1	12.0	
Ulysses.....	48	7.9	40	6.7	55	9.2	36	6.1	46	7.8	7.5	
Valley Center.....	46	11.5	34	8.3	36	7.4	54	11.0	44	8.8	9.4	
Wamego.....	50	11.6	46	10.5	42	9.9	45	10.7	46	10.9	10.7	
Wellington.....	96	10.9	111	12.6	124	14.3	99	11.6	108	12.8	12.4	
Wichita.....	3,081	9.1	2,918	8.6	3,117	9.1	3,081	8.9	3,253	9.2	9.0	
Winfield.....	158	13.5	188	15.8	160	13.1	163	13.4	164	13.4	13.8	

*Rate per 1,000 population

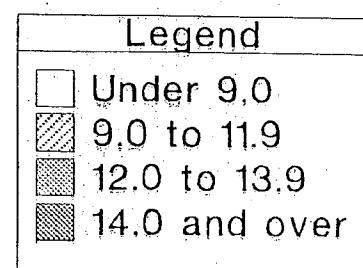
Death Rates By County Of Residence Kansas, 2002



Deaths Per 1,000 Population

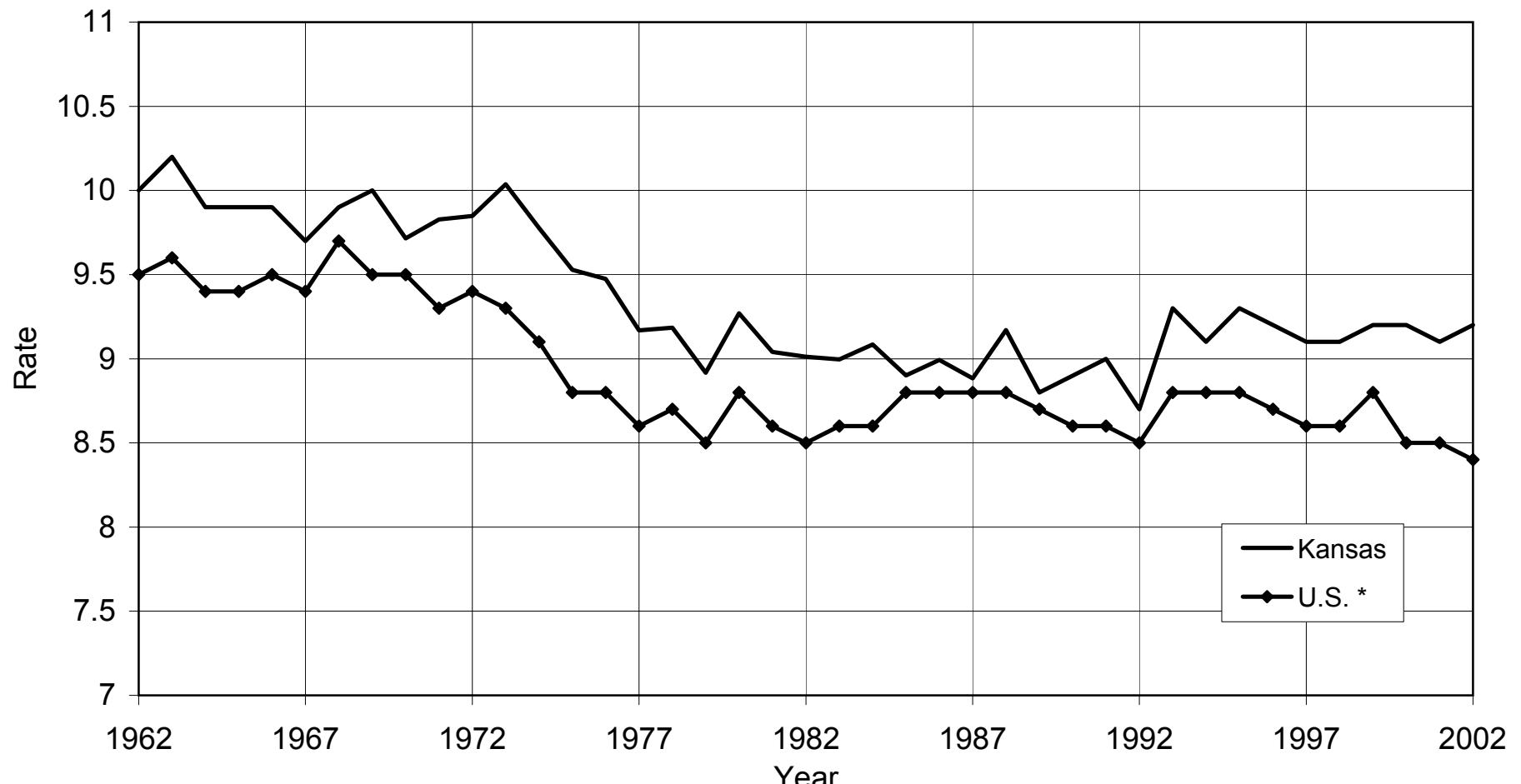
State Rate: 9.2

Figure 26



Death Rates

Kansas and the U.S., 1962-2002



*2001-2002 Rates Provisional

Rate per 1,000 Population

Residence Data

Figure 27

Table 32
Fetal Deaths By Cause Of Death And Weeks Gestation
Kansas, 2002

Cause of Death (ICD-10 Code)	Total Fetal Deaths	Weeks Gestation				
		Under 20	20-31	32-41	42 & Over	N.S.
All Causes.....	146	3	71	65	1	6
Certain Conditions Originating in the Perinatal Period (P00-P96).....	98	2	55	36	1	4
-Fetus Affected by Maternal Conditions (P00).....	4	0	3	0	0	1
-Fetus Affected by Maternal Complications of Pregnancy (P01).....	6	0	5	1	0	0
-Fetus Affected by Complications of Placenta, Cord & Membrane (P02).....	51	0	25	24	1	1
-Fetus Affected by Complications of Labor & Delivery (P03).....	1	0	1	0	0	0
-Disorders Related to Short Gestation & Low Birth Weight (P07).....	11	1	8	1	0	1
-Hypoxia and Birth Asphyxia (P20-P21).....	0	0	0	0	0	0
-Cardiovascular Disorders (P29).....	0	0	0	0	0	0
-Hemorrhagic & Hematologic Disorders of Fetus (P50-P54, P56).....	0	0	0	0	0	0
-Fetal Death of Unspecified Cause (P95).....	19	0	10	9	0	0
-Other Perinatal Conditions (P04-P05, P08-P15, P22-P28, P35-P39, P55, P57-P94, P96).....	6	1	3	1	0	1
Congenital Anomalies (Q00-Q99).....	19	1	7	11	0	0
Symptoms, Signs & Abnormal Findings (R00-R99).....	29	0	9	18	0	2
All other Causes (A00-N00, V06-Y36).....	0	0	0	0	0	0

Residence data

Table 33
Perinatal Period III Deaths By Component
Kansas, 1972-2002

Year	Fetal Deaths	Hebdomadal Deaths	Perinatal Period III Deaths	
			Number	Rate*
1972.....	375	410	785	23.4
1973.....	355	342	697	21.6
1974.....	379	354	733	22.2
1975.....	341	304	645	18.9
1976.....	364	310	674	18.9
1977.....	308	335	643	17.3
1978.....	331	254	585	15.8
1979.....	330	260	590	15.0
1980.....	340	226	566	13.8
1981.....	316	264	580	14.0
1982.....	336	234	570	13.9
1983.....	296	202	498	12.2
1984.....	277	200	477	11.9
1985.....	274	184	458	11.5
1986.....	242	153	395	10.0
1987.....	253	179	432	11.2
1988.....	236	161	397	10.2
1989.....	240	138	378	9.7
1990.....	217	162	379	9.7
1991.....	205	158	363	9.6
1992.....	216	165	381	10.0
1993.....	222	171	393	10.5
1994.....	231	140	371	9.9
1995.....	183	134	317	8.5
1996.....	179	157	336	9.2
1997.....	202	147	349	9.3
1998.....	199	132	331	8.6
1999.....	175	159	334	8.6
2000.....	177	146	323	8.1
2001.....	209	148	357	9.1
2002.....	146	155	301	7.6

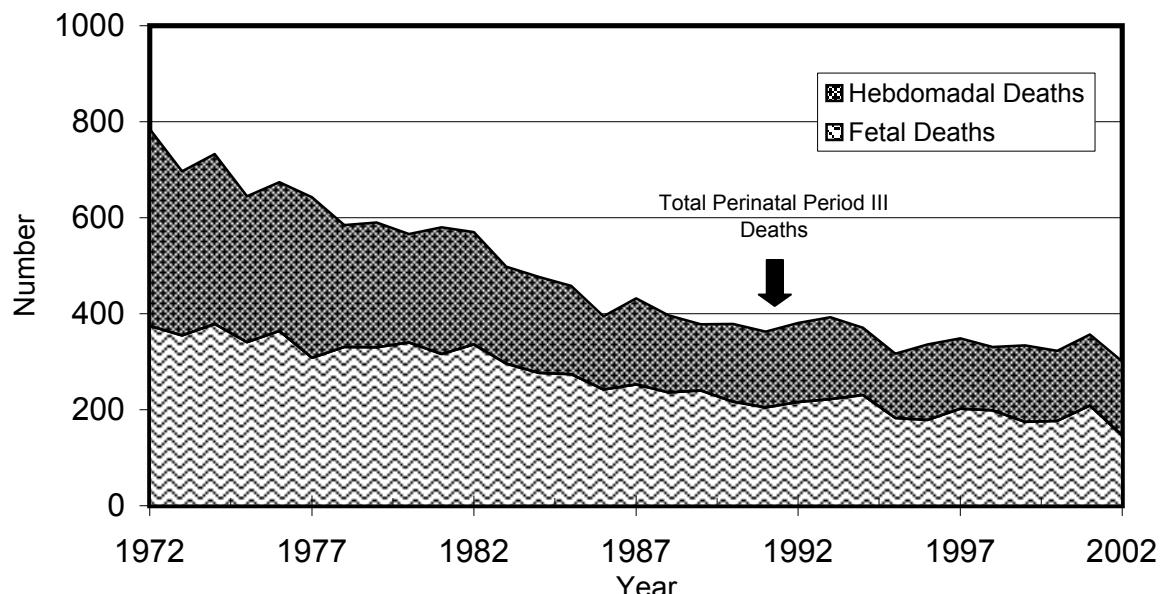
*Rate per 1,000 live births + fetal deaths
Residence data

Table 34
 Perinatal Period III Deaths By Component
 By County Of Residence
 Kansas, 2002

County of Residence	Total	Perinatal Period III Deaths		County of Residence	Total	Perinatal Period III Deaths	
		Fetal Deaths	Hebdomadal Deaths			Fetal Deaths	Hebdomadal Deaths
Kansas.....	301	146	155				
Allen.....	3	3	0	Lyon.....	3	1	2
Anderson.....	1	1	0	Marion.....	1	1	0
Atchison.....	0	0	0	Marshall.....	0	0	0
Barber.....	0	0	0	McPherson.....	1	0	1
Barton.....	3	1	2	Meade.....	0	0	0
Bourbon.....	3	2	1	Miami.....	1	0	1
Brown.....	4	2	2	Mitchell.....	0	0	0
Butler.....	5	4	1	Montgomery.....	7	3	4
Chase.....	0	0	0	Morris.....	0	0	0
Chautauqua.....	0	0	0	Morton.....	0	0	0
Cherokee.....	2	2	0	Nemaha.....	1	1	0
Cheyenne.....	0	0	0	Neosho.....	4	2	2
Clark.....	0	0	0	Ness.....	0	0	0
Clay.....	2	1	1	Norton.....	0	0	0
Cloud.....	0	0	0	Osage.....	0	0	0
Coffey.....	0	0	0	Osborne.....	0	0	0
Comanche.....	0	0	0	Ottawa.....	0	0	0
Cowley.....	4	2	2	Pawnee.....	3	2	1
Crawford.....	4	1	3	Phillips.....	0	0	0
Decatur.....	0	0	0	Pottawatomie.....	5	3	2
Dickinson.....	0	0	0	Pratt.....	2	0	2
Doniphan.....	0	0	0	Rawlins.....	0	0	0
Douglas.....	10	6	4	Reno.....	6	3	3
Edwards.....	1	1	0	Republic.....	0	0	0
Elk.....	0	0	0	Rice.....	0	0	0
Ellis.....	0	0	0	Riley.....	4	2	2
Ellsworth.....	0	0	0	Rooks.....	0	0	0
Finney.....	5	4	1	Rush.....	1	1	0
Ford.....	4	1	3	Russell.....	1	0	1
Franklin.....	4	3	1	Saline.....	5	2	3
Geary.....	10	7	3	Scott.....	1	0	1
Gove.....	0	0	0	Sedgwick.....	74	26	48
Graham.....	0	0	0	Seward.....	6	3	3
Grant.....	0	0	0	Shawnee.....	16	8	8
Gray.....	2	2	0	Sheridan.....	0	0	0
Greeley.....	1	1	0	Sherman.....	0	0	0
Greenwood.....	1	1	0	Smith.....	0	0	0
Hamilton.....	0	0	0	Stafford.....	0	0	0
Harper.....	1	1	0	Stanton.....	0	0	0
Harvey.....	3	1	2	Stevens.....	0	0	0
Haskell.....	0	0	0	Sumner.....	3	2	1
Hodgeman.....	1	1	0	Thomas.....	1	1	0
Jackson.....	0	0	0	Trego.....	0	0	0
Jefferson.....	0	0	0	Wabaunsee.....	0	0	0
Jewell.....	0	0	0	Wallace.....	0	0	0
Johnson.....	40	21	19	Washington.....	0	0	0
Kearny.....	1	0	1	Wichita.....	1	0	1
Kingman.....	0	0	0	Wilson.....	1	1	0
Kiowa.....	0	0	0	Woodson.....	0	0	0
Labette.....	2	2	0	Wyandotte.....	31	11	20
Lane.....	1	0	1				
Leavenworth.....	3	1	2				
Lincoln.....	0	0	0				
Linn.....	0	0	0				
Logan.....	1	1	0				

Perinatal Period III Deaths by Component

Kansas, 1972-2002

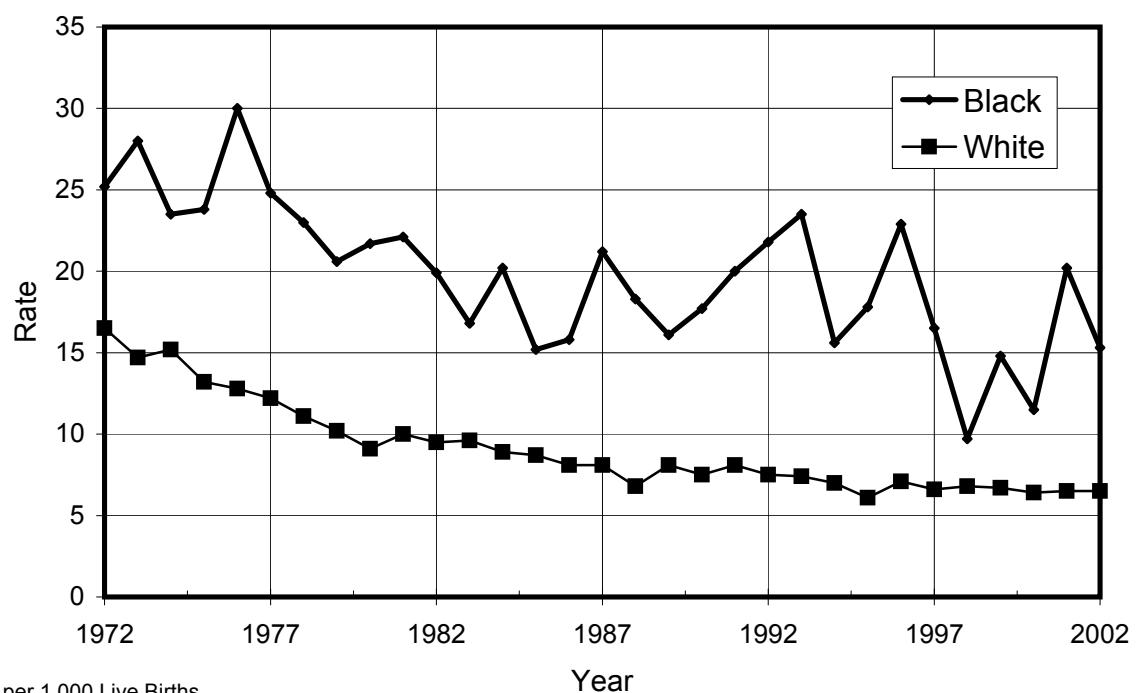


Residence

Figure 28

Infant Death Rates by Race of Mother

Kansas 1972-2002



Rate per 1,000 Live Births
Residence Data

Figure 29

Table 35
Infant Death Rates*
By Race Of Mother
Kansas, 1972-2002

Year	White			Black			Total Infant Death Rate: All Races**
	Live Births	Infant Deaths	Rate	Live Births	Infant Deaths	Rate	
1972	30,351	502	16.5	2,377	60	25.2	17.2
1973	29,328	431	14.7	2,214	62	28.0	15.5
1974	30,046	458	15.2	2,212	52	23.5	15.7
1975	30,980	408	13.2	2,226	53	23.8	13.9
1976	32,220	414	12.8	2,433	73	30.0	13.9
1977	33,657	411	12.2	2,577	64	24.8	13.0
1978	33,277	369	11.1	2,691	62	23.0	12.0
1979	35,315	360	10.2	2,918	60	20.6	11.0
1980	36,772	336	9.1	3,129	68	21.7	10.1
1981	37,253	374	10.0	3,030	67	22.1	11.0
1982	36,650	350	9.5	3,065	61	19.9	10.2
1983	36,424	349	9.6	2,971	50	16.8	10.1
1984	36,025	322	8.9	2,916	59	20.2	9.8
1985	35,551	308	8.7	2,890	44	15.2	9.1
1986	35,142	283	8.1	3,032	48	15.8	8.6
1987	34,371	279	8.1	3,068	65	21.2	9.2
1988	34,541	234	6.8	3,176	58	18.3	7.9
1989	34,387	278	8.1	3,235	52	16.1	8.8
1990	34,605	261	7.5	3,328	59	17.7	8.4
1991	33,404	269	8.1	3,154	63	20.0	9.0
1992	33,472	252	7.5	3,310	72	21.8	8.8
1993	32,896	242	7.4	3,230	76	23.5	8.7
1994	33,041	230	7.0	3,133	49	15.6	7.6
1995	32,964	201	6.1	2,867	51	17.8	6.9
1996	32,610	230	7.1	2,755	63	22.9	8.2
1997	33,118	218	6.6	2,794	46	16.5	7.4
1998	34,192	234	6.8	2,771	27	9.7	6.9
1999	34,483	230	6.7	2,841	42	14.8	7.3
2000	35,158	224	6.4	2,858	33	11.5	6.7
2001	34,437	223	6.5	2,770	56	20.2	7.3
2002	34,740	227	6.5	2,872	44	15.3	7.2

*Rate per 1,000 live births

**Other nonwhite data is not included in this table due
to the small numbers but is available upon request.
Residence data

Table 36
 Infant Deaths By County Of Residence
 And By Peer Group*
 Kansas, 1998-2002

County of Residence	Year					Total Infant Deaths 1998-2002	Infant Death Rate** 1998-2002
	1998	1999	2000	2001	2002		
Kansas.....	263	281	266	285	282	1,377	7.1
Allen.....	1	1	0	2	0	4	4.6
Anderson.....	0	1	1	0	0	2	3.8
Atchison.....	1	2	4	2	0	9	8.5
Barber.....	0	0	0	1	0	1	4.5
Barton.....	5	1	0	2	4	12	6.7
Bourbon.....	3	2	2	0	2	9	9.1
Brown.....	4	1	2	1	2	10	14.6
Butler.....	8	4	4	2	8	26	6.8
Chase.....	0	0	0	0	0	0	0.0
Chautauqua.....	0	0	0	0	0	0	0.0
Cherokee.....	0	3	2	0	0	5	3.5
Cheyenne.....	0	0	0	0	1	1	7.2
Clark.....	0	0	0	0	0	0	0.0
Clay.....	2	1	0	0	1	4	8.4
Cloud.....	0	0	1	2	1	4	7.5
Coffey.....	0	0	1	0	0	1	2.0
Comanche.....	0	0	0	0	0	0	0.0
Cowley.....	2	4	1	11	4	22	9.3
Crawford.....	3	4	4	2	3	16	6.0
Decatur.....	0	0	0	0	0	0	0.0
Dickinson.....	1	1	4	1	0	7	6.4
Doniphan.....	1	0	0	1	0	2	4.2
Douglas.....	9	3	7	5	8	32	5.4
Edwards.....	0	0	2	1	0	3	13.8
Elk.....	0	0	3	0	0	3	20.0
Ellis.....	3	4	2	1	2	12	7.0
Ellsworth.....	0	1	2	0	0	3	11.3
Finney.....	6	1	11	5	4	27	6.2
Ford.....	3	5	7	13	8	36	11.1
Franklin.....	4	3	1	2	2	12	6.6
Geary.....	13	15	4	12	8	52	17.5
Gove.....	0	0	0	0	0	0	0.0
Graham.....	0	0	1	0	1	2	17.9
Grant.....	1	2	2	0	0	5	6.5
Gray.....	1	0	1	1	1	4	8.4
Greeley.....	0	0	0	0	0	0	0.0
Greenwood.....	3	0	0	2	2	7	16.9
Hamilton.....	0	0	0	1	0	1	4.5
Harper.....	0	0	0	0	0	0	0.0
Harvey.....	4	1	1	0	2	8	3.7
Haskell.....	1	0	0	2	0	3	8.1
Hodgeman.....	0	0	0	0	1	1	10.3
Jackson.....	0	6	1	2	0	9	11.4
Jefferson.....	1	0	2	1	0	4	3.8
Jewell.....	0	0	1	0	0	1	8.2
Johnson.....	31	34	42	43	30	180	5.2
Kearny.....	1	0	0	0	1	2	5.3
Kingman.....	0	0	2	0	0	2	4.3
Kiowa.....	0	0	0	0	0	0	0.0
Labette.....	1	2	4	0	1	8	5.8
Lane.....	0	0	0	0	1	1	10.2
Leavenworth.....	10	6	6	8	8	38	8.5
Lincoln.....	0	1	1	0	1	3	16.1
Linn.....	0	2	2	0	1	5	8.9
Logan.....	0	0	0	0	0	0	0.0

Table 36
Infant Deaths By County Of Residence
And By Peer Group*
Kansas, 1998-2002

County of Residence	Year					Total Infant Deaths 1998-2002	Infant Death Rate** 1998-2002
	1998	1999	2000	2001	2002		
Lyon.....	4	1	2	1	2	10	3.9
Marion.....	0	1	1	0	2	4	5.7
Marshall.....	2	0	0	0	1	3	5.3
McPherson.....	1	1	2	2	2	8	4.6
Meade.....	0	0	1	0	0	1	3.0
Miami.....	1	2	5	1	1	10	5.3
Mitchell.....	0	0	0	0	0	0	0.0
Montgomery.....	5	5	1	5	7	23	9.8
Morris.....	2	1	0	0	0	3	9.8
Morton.....	0	0	0	0	0	0	0.0
Nemaha.....	1	1	0	0	0	2	2.8
Neosho.....	2	2	3	0	2	9	9.1
Ness.....	0	0	0	0	1	1	6.2
Norton.....	0	1	0	0	0	1	3.7
Osage.....	0	1	2	1	1	5	5.4
Osborne.....	1	0	0	0	0	1	5.4
Ottawa.....	1	1	0	1	0	3	8.5
Pawnee.....	0	0	0	2	1	3	8.3
Phillips.....	0	0	0	3	0	3	9.3
Pottawatomie.....	2	3	2	2	5	14	10.6
Pratt.....	0	0	0	1	3	4	7.1
Rawlins.....	1	0	0	0	0	1	8.6
Reno.....	8	5	4	8	3	28	6.6
Republic.....	0	0	0	0	0	0	0.0
Rice.....	1	1	0	0	0	2	3.2
Riley.....	2	4	1	3	4	14	3.0
Rooks.....	0	0	0	0	0	0	0.0
Rush.....	0	0	0	0	0	0	0.0
Russell.....	0	0	1	0	1	2	5.7
Saline.....	4	6	4	5	6	25	6.6
Scott.....	0	0	0	0	2	2	6.2
Sedgwick.....	57	62	58	72	76	325	8.6
Seward.....	1	5	4	5	5	20	7.7
Shawnee.....	16	30	23	20	18	107	8.8
Sheridan.....	0	0	0	0	0	0	0.0
Sherman.....	0	0	2	0	1	3	6.9
Smith.....	0	0	0	0	0	0	0.0
Stafford.....	2	0	0	1	0	3	10.9
Stanton.....	0	0	1	0	0	1	5.0
Stevens.....	0	1	0	1	0	2	4.5
Sumner.....	3	0	1	1	1	6	3.6
Thomas.....	1	3	0	0	0	4	7.9
Trego.....	1	0	0	0	0	1	6.4
Wabaunsee.....	0	0	0	0	0	0	0.0
Wallace.....	1	0	0	0	0	1	9.7
Washington.....	0	0	0	1	0	1	3.1
Wichita.....	1	0	0	0	1	2	11.8
Wilson.....	4	1	0	0	0	5	8.3
Woodson.....	1	0	0	0	0	1	5.6
Wyandotte.....	14	32	17	23	28	114	8.1
Peer Group							
Frontier	6	1	10	3	8	28	5.3
Rural	27	25	19	20	19	110	6.5
Densely -Settled Rural	37	38	53	50	41	219	7.1
Semi-Urban	66	56	37	49	54	262	7.0
Urban	127	161	147	163	160	758	7.3

* See Technical Notes for Peer Group definition.

** Rate per 1,000 live births

Table 37
Infant Deaths By Cause Of Death And Age-Group Of Infant
Kansas, 2002

Cause of Death (ICD-10 Code)	Age-Group of Infant						
	Under 1 Day	1-6 Days	Under 7 Days a/	7-27 Days	Under 28 Days b/	28-364 Days	Under 1 Year
All Causes.....	123	32	155	37	192	90	282
Infectious and Parasitic Diseases (A00-B99).....	0	0	0	0	0	3	3
Other Diseases and Disorders (C00-O99).....	0	2	2	1	3	12	15
Certain Conditions Originating in the Perinatal Period (P00-P96).....	95	22	117	17	134	2	136
-Maternal Factors and Compl. of Pregnancy, Labor and Delivery (P00-P04).....	21	0	21	0	21	0	21
-Disorders Relating to Short Gestation and Low Birth Weight (P07).....	58	4	62	1	63	2	65
-Birth Trauma (P10-P15).....	0	5	5	0	5	0	5
-Hypoxia and Birth Asphyxia (P20-P21).....	1	0	1	1	2	0	2
-Respiratory Distress of Newborn (P22).....	0	1	1	0	1	0	1
-Congenital Pneumonia (P23).....	0	0	0	0	0	0	0
-Other Respiratory Conditions of Newborn (P24-P28).....	2	5	7	0	7	0	7
-Bacterial Sepsis of Newborn (P36).....	0	1	1	5	6	0	6
-Omphalitis of Newborn w/wo Mild Hemorrhage (P38).....	0	0	0	0	0	0	0
-Hemorrhagic and Hematolog. Disorders of Fetus and Newborn (P50-P61).....	2	3	5	3	8	0	8
-Other Perinatal Conditions (P05, P08, P29, P35, P37, P39, P70-P96).....	11	3	14	7	21	0	21
Congenital Anomalies (Q00-Q99).....	27	8	35	13	48	15	63
Symptoms and Abnormal Findings (R00-R99).....	1	0	1	5	6	45	51
-Sudden Infant Death Syndrome (R95).....	0	0	0	5	5	41	46
-Other (R00-R94, R96-R99).....	1	0	1	0	1	4	5
External Causes of Mortality (V01-Y89).....	0	0	0	1	1	13	14

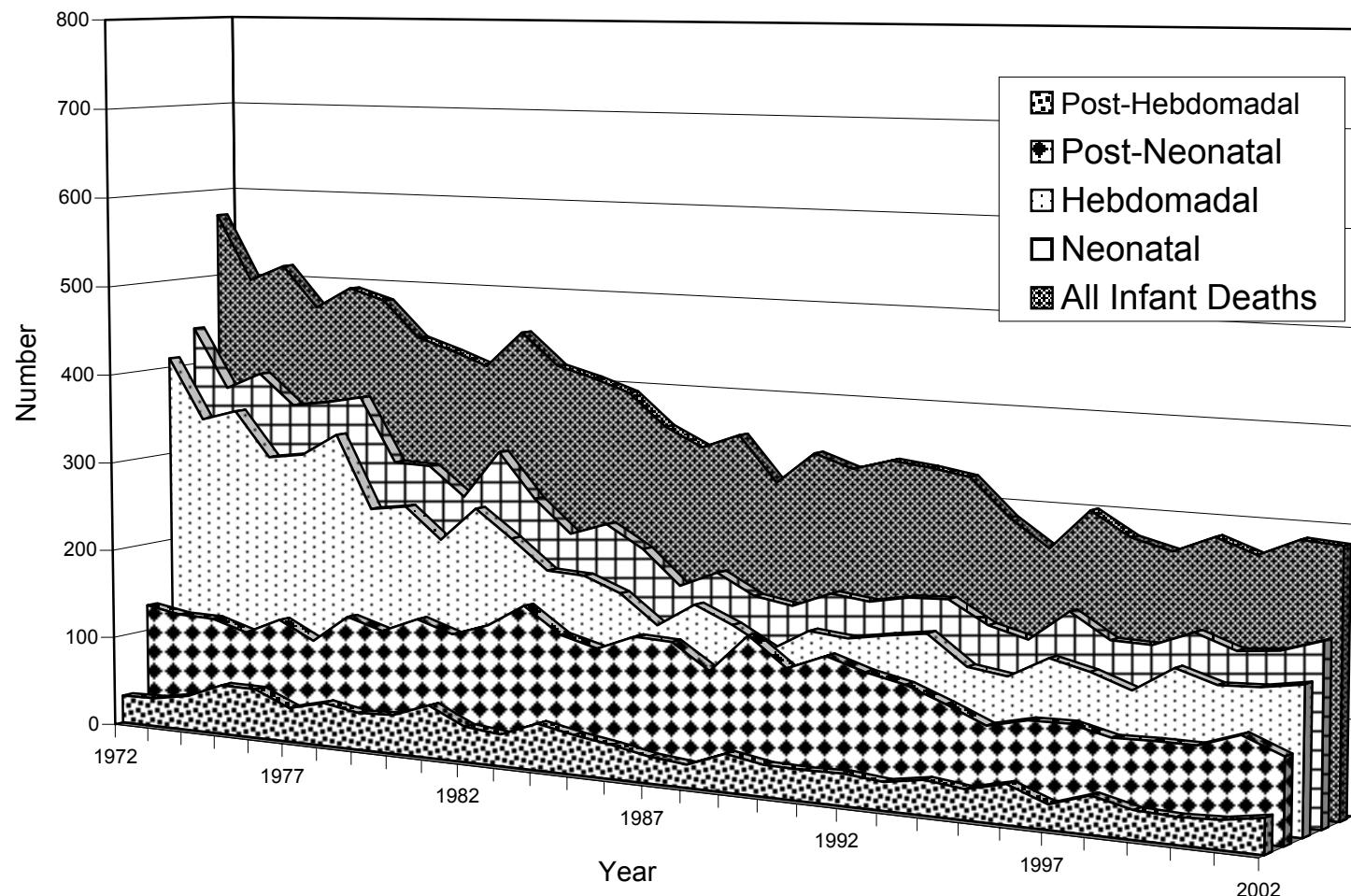
a/Hebdomadal Deaths

b/Neonatal Deaths

Residence data

Infant Deaths by Component

Kansas, 1972-2002



Residence Data

Figure 30

Table 38
 Infant Deaths By Component
 By County Of Residence
 Kansas, 2002

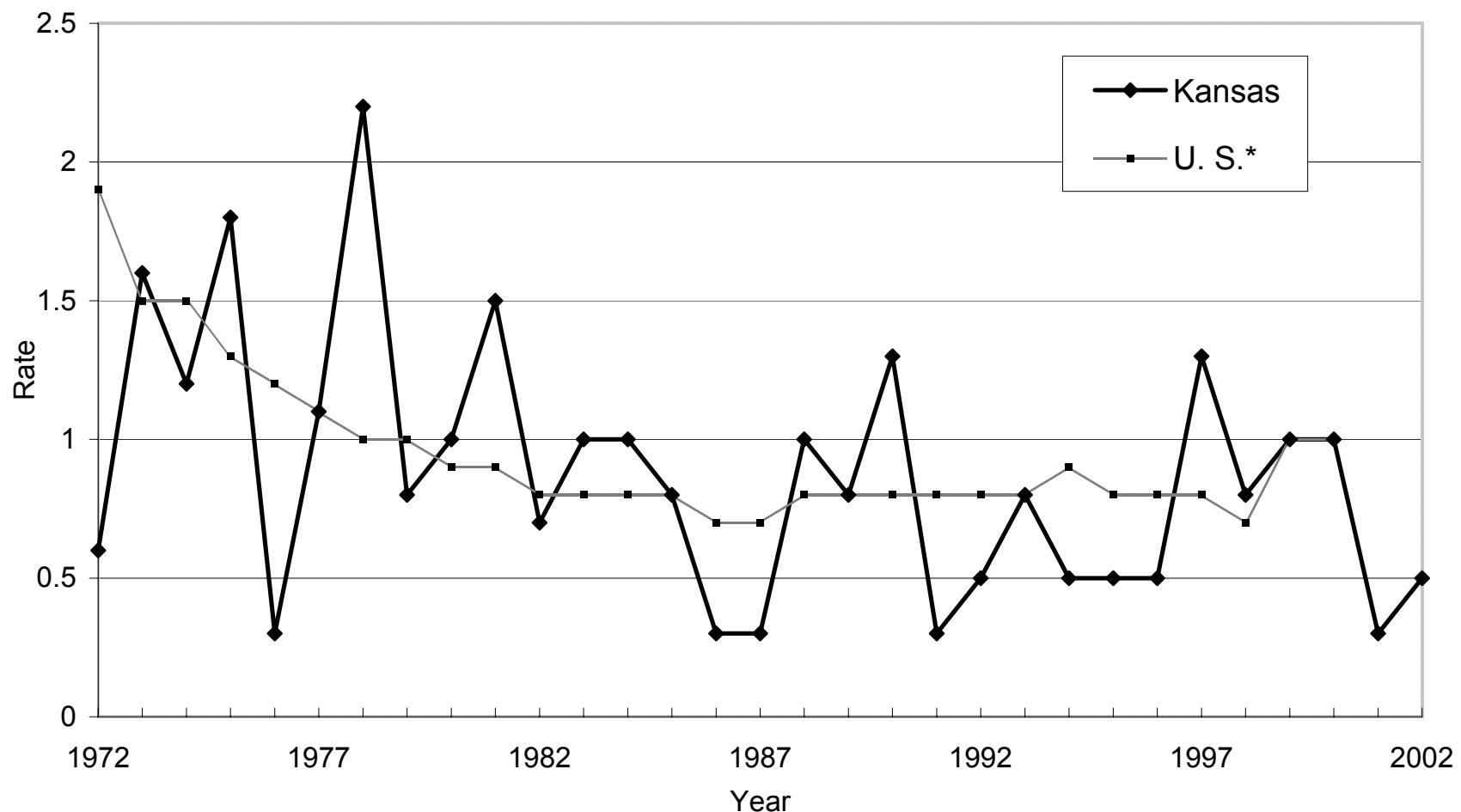
County of Residence	Hebdomadal Deaths Under 7 Days	Post-Hebdomadal Deaths 7-27 Days	Neonatal Deaths Under 28 Days	Post-Neonatal Deaths 28-364 Days	Total Infant Deaths Under 1 Year
Kansas.....	155	37	192	90	282
Allen.....	0	0	0	0	0
Anderson.....	0	0	0	0	0
Atchison.....	0	0	0	0	0
Barber.....	0	0	0	0	0
Barton.....	2	0	2	2	4
Bourbon.....	1	0	1	1	2
Brown.....	2	0	2	0	2
Butler.....	1	4	5	3	8
Chase.....	0	0	0	0	0
Chautauqua.....	0	0	0	0	0
Cherokee.....	0	0	0	0	0
Cheyenne.....	0	0	0	1	1
Clark.....	0	0	0	0	0
Clay.....	1	0	1	0	1
Cloud.....	0	1	1	0	1
Coffey.....	0	0	0	0	0
Comanche.....	0	0	0	0	0
Cowley.....	2	2	4	0	4
Crawford.....	3	0	3	0	3
Decatur.....	0	0	0	0	0
Dickinson.....	0	0	0	0	0
Doniphan.....	0	0	0	0	0
Douglas.....	4	0	4	4	8
Edwards.....	0	0	0	0	0
Elk.....	0	0	0	0	0
Ellis.....	0	0	0	2	2
Ellsworth.....	0	0	0	0	0
Finney.....	1	2	3	1	4
Ford.....	3	0	3	5	8
Franklin.....	1	0	1	1	2
Geary.....	3	1	4	4	8
Gove.....	0	0	0	0	0
Graham.....	0	0	0	1	1
Grant.....	0	0	0	0	0
Gray.....	0	1	1	0	1
Greeley.....	0	0	0	0	0
Greenwood.....	0	0	0	2	2
Hamilton.....	0	0	0	0	0
Harper.....	0	0	0	0	0
Harvey.....	2	0	2	0	2
Haskell.....	0	0	0	0	0
Hodgeman.....	0	0	0	1	1
Jackson.....	0	0	0	0	0
Jefferson.....	0	0	0	0	0
Jewell.....	0	0	0	0	0
Johnson.....	19	3	22	8	30
Kearny.....	1	0	1	0	1
Kingman.....	0	0	0	0	0
Kiowa.....	0	0	0	0	0
Labette.....	0	1	1	0	1
Lane.....	1	0	1	0	1
Leavenworth.....	2	2	4	4	8
Lincoln.....	0	1	1	0	1
Linn.....	0	0	0	1	1
Logan.....	0	0	0	0	0

Table 38
 Infant Deaths By Component
 By County Of Residence
 Kansas, 2002

County of Residence	Hebdomadal Deaths Under 7 Days	Post-Hebdomadal Deaths 7-27 Days	Neonatal Deaths Under 28 Days	Post-Neonatal Deaths 28-364 Days	Total Infant Deaths Under 1 Year
Lyon.....	2	0	2	0	2
Marion.....	0	1	1	1	2
Marshall.....	0	0	0	1	1
McPherson.....	1	0	1	1	2
Meade.....	0	0	0	0	0
Miami.....	1	0	1	0	1
Mitchell.....	0	0	0	0	0
Montgomery.....	4	1	5	2	7
Morris.....	0	0	0	0	0
Morton.....	0	0	0	0	0
Nemaha.....	0	0	0	0	0
Neosho.....	2	0	2	0	2
Ness.....	0	0	0	1	1
Norton.....	0	0	0	0	0
Osage.....	0	0	0	1	1
Osborne.....	0	0	0	0	0
Ottawa.....	0	0	0	0	0
Pawnee.....	1	0	1	0	1
Phillips.....	0	0	0	0	0
Pottawatomie.....	2	0	2	3	5
Pratt.....	2	1	3	0	3
Rawlins.....	0	0	0	0	0
Reno.....	3	0	3	0	3
Republic.....	0	0	0	0	0
Rice.....	0	0	0	0	0
Riley.....	2	1	3	1	4
Rooks.....	0	0	0	0	0
Rush.....	0	0	0	0	0
Russell.....	1	0	1	0	1
Saline.....	3	0	3	3	6
Scott.....	1	0	1	1	2
Sedgwick.....	48	12	60	16	76
Seward.....	3	1	4	1	5
Shawnee.....	8	0	8	10	18
Sheridan.....	0	0	0	0	0
Sherman.....	0	0	0	1	1
Smith.....	0	0	0	0	0
Stafford.....	0	0	0	0	0
Stanton.....	0	0	0	0	0
Stevens.....	0	0	0	0	0
Sumner.....	1	0	1	0	1
Thomas.....	0	0	0	0	0
Trego.....	0	0	0	0	0
Wabaunsee.....	0	0	0	0	0
Wallace.....	0	0	0	0	0
Washington.....	0	0	0	0	0
Wichita.....	1	0	1	0	1
Wilson.....	0	0	0	0	0
Woodson.....	0	0	0	0	0
Wyandotte.....	20	2	22	6	28

Maternal Mortality Rates

Kansas and the U.S., 1972-2002



*2001-2002 Rates Unavailable

Rate per 10,000 Live Births

Residence Data

Figure 31

Table 39
Age-Specific Death Rates* By Sex
Kansas, 1993-2002

Age-Group and Sex	Year									
	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002
Both Sexes										
Total.....	9.2	9.0	9.2	9.2	9.0	9.1	9.2	9.2	9.1	9.2
Under 1.....	8.9	7.8	7.1	8.4	7.5	7.1	7.5	7.0	7.5	7.4
1-4.....	0.4	0.4	0.4	0.5	0.4	0.4	0.4	0.4	0.4	0.4
5-14.....	0.2	0.2	0.2	0.3	0.2	0.2	0.2	0.2	0.2	0.2
15-24.....	0.9	1.0	0.9	1.0	0.9	0.9	0.8	0.8	0.9	0.9
25-34.....	1.1	1.2	1.1	1.1	1.0	1.0	1.0	0.9	0.9	0.8
35-44.....	1.6	1.7	1.7	1.7	1.7	1.7	1.6	1.7	1.8	2.0
45-54.....	3.7	3.7	3.9	3.5	3.7	3.6	3.8	3.6	3.9	4.0
55-64.....	10.4	9.6	9.8	10.1	9.7	9.4	9.9	9.3	9.6	9.1
65-74.....	24.5	24.1	24.5	24.4	23.4	23.7	24.0	23.1	22.9	22.4
75-84.....	57.2	55.5	55.9	54.2	54.4	54.1	54.7	55.9	55.7	55.7
85 and over.....	153.3	150.2	154.9	153.4	152.3	154.3	154.2	160.5	154.5	154.6
Male										
Total.....	9.3	9.0	9.2	9.1	9.1	8.9	8.9	8.8	8.8	8.8
Under 1.....	9.0	9.0	7.7	9.4	8.3	7.7	8.7	7.5	8.4	7.6
1-4.....	0.5	0.4	0.5	0.5	0.6	0.5	0.5	0.5	0.5	0.5
5-14.....	0.3	0.3	0.2	0.3	0.2	0.3	0.2	0.2	0.2	0.2
15-24.....	1.3	1.4	1.2	1.4	1.3	1.3	1.2	1.2	1.3	1.2
25-34.....	1.6	1.8	1.6	1.6	1.4	1.5	1.3	1.3	1.3	1.2
35-44.....	2.1	2.1	2.3	2.3	2.0	2.2	2.0	2.1	2.2	2.5
45-54.....	4.7	4.7	4.9	4.3	4.7	4.6	4.6	4.5	4.9	4.9
55-64.....	13.1	12.2	12.3	12.3	12.3	11.5	11.9	11.1	11.9	11.1
65-74.....	32.0	31.6	30.7	30.8	30.3	30.3	30.5	27.8	28.1	27.6
75-84.....	75.9	70.2	73.4	70.3	71.0	68.0	67.8	70.3	69.2	67.3
85 and over.....	179.9	176.6	179.4	178.3	175.1	173.6	170.2	187.4	179.6	174.5
Female										
Total.....	9.2	9.1	9.3	9.2	9.0	9.2	9.4	9.5	9.4	9.6
Under 1.....	8.8	6.6	6.5	7.4	6.7	6.4	6.3	6.4	6.5	7.1
1-4.....	0.3	0.4	0.3	0.5	0.2	0.4	0.4	0.4	0.3	0.4
5-14.....	0.2	0.2	0.2	0.2	0.2	0.1	0.2	0.2	0.2	0.1
15-24.....	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.4	0.4	0.5
25-34.....	0.6	0.7	0.6	0.6	0.6	0.6	0.7	0.5	0.6	0.5
35-44.....	1.2	1.2	1.0	1.1	1.3	1.1	1.2	1.3	1.4	1.5
45-54.....	2.8	2.9	3.0	2.7	2.6	2.6	2.9	2.7	3.0	3.0
55-64.....	7.8	7.3	7.4	8.0	7.2	7.3	8.0	7.6	7.5	7.3
65-74.....	18.5	18.0	19.4	19.2	17.6	18.2	18.7	19.2	18.6	18.1
75-84.....	45.6	46.4	44.9	43.9	43.7	45.1	46.0	46.4	46.9	47.8
85 and over.....	143.1	140.0	145.3	143.5	143.1	146.4	147.5	150.0	144.7	146.5

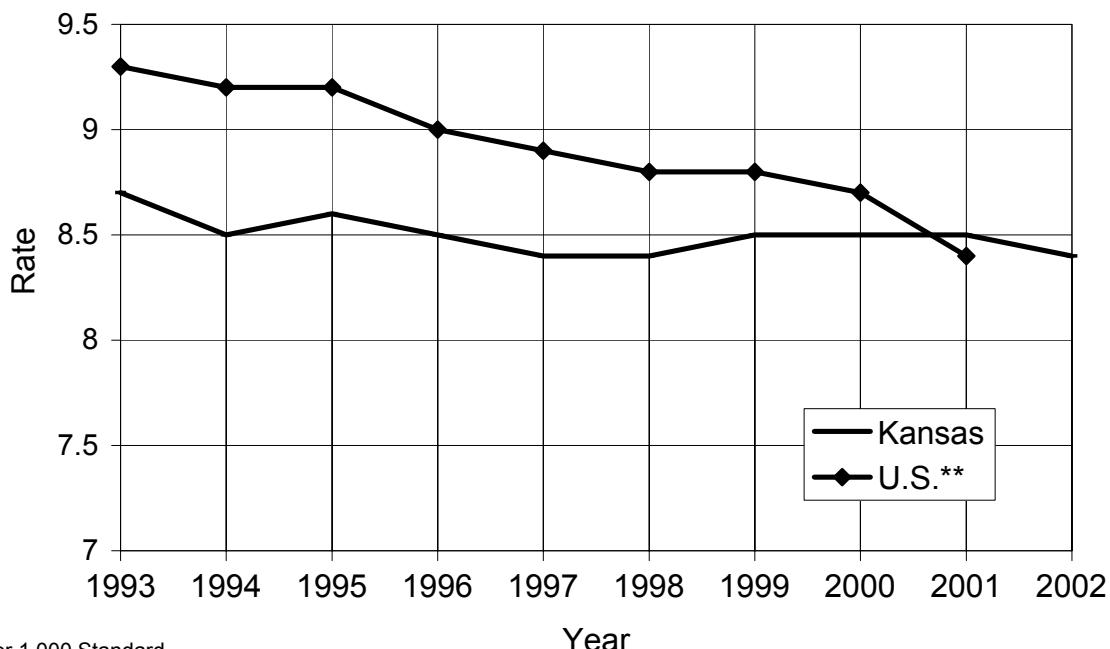
*Rate per 1,000 age-group population

Rates may differ from those published in reports prior to 1999.

Residence data

Age-Adjusted Death Rates*

Kansas and the U.S., 1993-2002



*Rate per 1,000 Standard

U.S. 2000 Population

**2001 Rate Provisional

2002 Rate Not Available

Residence Data

Figure 32

Table 40
Age-Adjusted Death Rates* By Sex
Kansas And The U.S., 1993-2002

Year	Kansas			U.S.**		
	Total	Male	Female	Total	Male	Female
1993.....	8.7	11.0	7.1	9.3	11.8	7.5
1994.....	8.5	10.6	7.0	9.2	11.6	7.5
1995.....	8.6	10.8	7.1	9.2	11.5	7.5
1996.....	8.5	10.6	7.0	9.0	11.2	7.4
1997.....	8.4	10.5	6.8	8.9	10.9	7.4
1998.....	8.4	10.3	6.9	8.8	10.6	7.3
1999.....	8.5	10.2	7.2	8.8	10.6	7.4
2000.....	8.5	10.3	7.2	8.7	10.5	7.3
2001.....	8.5	10.3	7.1	8.4	10.1	7.1
2002.....	8.4	10.1	7.2	n.a.	n.a.	n.a.

* Rate per 1,000 standard U.S. 2000 population (see Technical Notes)

Rates will differ from those published prior to 1999 because they have been recalculated using the 2000 U.S. standard population.

** 2001 Rate Provisional.

Residence data

Table 41
 Deaths By Age-Group And Average Age At Death
 By County Of Residence
 Kansas, 2002

County of Residence	Total	Age-Group												Average Age At Death
		Under 1	1-4	5-14	15-24	25-34	35-44	45-54	55-64	65-74	75-84	85 and over	N.S.	
Kansas.....	24,968	282	62	68	356	292	811	1,493	2,180	3,839	7,248	8,335	2	74.4
Allen.....	168	0	0	1	5	1	4	9	12	23	38	75	0	76.7
Anderson.....	109	0	0	0	3	0	0	2	11	16	34	43	0	78.1
Atchison.....	208	0	1	0	3	2	8	8	14	33	60	79	0	77.1
Barber.....	77	0	1	0	2	2	1	2	4	15	28	22	0	74.5
Barton.....	294	4	1	0	6	3	4	6	32	43	91	104	0	75.6
Bourbon.....	225	2	0	0	3	2	9	8	19	30	62	90	0	76.7
Brown.....	149	2	0	0	2	1	2	7	7	20	44	64	0	78.2
Butler.....	529	8	1	1	8	5	20	25	48	76	148	189	0	74.6
Chase.....	41	0	0	0	0	0	3	3	3	7	14	11	0	74.5
Chautauqua.....	87	0	0	0	0	2	1	2	4	14	28	36	0	79.5
Cherokee.....	258	0	2	0	1	8	8	16	21	42	79	81	0	74.5
Cheyenne.....	40	1	0	0	2	0	0	1	4	4	12	16	0	73.9
Clark.....	38	0	0	0	1	0	1	1	3	2	14	16	0	79.3
Clay.....	126	1	1	0	1	1	2	5	10	17	38	50	0	77.9
Cloud.....	160	1	0	0	3	1	3	7	9	20	44	72	0	78.5
Coffey.....	110	0	0	0	3	1	4	4	5	15	38	40	0	76.6
Comanche.....	47	0	0	0	0	0	0	1	8	4	13	21	0	79.7
Cowley.....	441	4	2	0	5	5	16	32	32	72	137	136	0	73.9
Crawford.....	439	3	0	1	3	5	15	26	35	53	118	180	0	76.5
Decatur.....	56	0	0	0	1	0	0	1	4	10	17	23	0	80.8
Dickinson.....	287	0	1	2	4	2	10	14	26	35	70	123	0	77.1
Doniphan.....	70	0	0	0	1	0	1	6	5	13	24	20	0	75.6
Douglas.....	560	8	1	2	7	10	21	37	63	91	135	185	0	72.8
Edwards.....	48	0	0	0	1	1	4	0	1	7	17	17	0	76.1
Elk.....	51	0	0	0	0	0	1	2	4	12	12	20	0	79.7
Ellis.....	263	2	1	0	2	2	2	10	16	44	72	112	0	78.0
Ellsworth.....	94	0	0	1	1	0	3	4	2	18	18	47	0	78.7
Finney.....	211	4	0	5	6	8	10	17	31	25	51	54	0	67.4
Ford.....	282	8	1	1	3	2	10	19	23	43	87	85	0	72.4
Franklin.....	238	2	0	0	4	5	7	11	16	40	73	80	0	75.1
Geary.....	209	8	0	0	2	3	4	21	22	31	67	51	0	70.9
Gove.....	38	0	0	0	0	0	1	3	2	4	7	21	0	80.4
Graham.....	42	1	0	0	0	0	0	0	4	7	9	21	0	80.1
Grant.....	52	0	0	0	2	2	1	3	3	15	11	15	0	72.3
Gray.....	70	1	0	0	2	1	1	3	7	8	20	27	0	75.6
Greeley.....	22	0	0	0	0	0	0	0	0	3	9	10	0	84.5
Greenwood.....	136	2	1	0	1	2	1	12	7	19	40	51	0	75.4
Hamilton.....	31	0	0	0	0	0	2	3	1	2	12	11	0	75.5
Harper.....	106	0	0	0	0	0	0	4	6	18	40	38	0	80.2
Harvey.....	347	2	1	1	1	3	14	15	27	45	102	136	0	77.1
Haskell.....	27	0	0	0	0	0	1	3	5	3	8	7	0	72.6
Hodgeman.....	31	1	0	0	1	0	1	0	1	5	6	16	0	77.7
Jackson.....	131	0	0	0	1	1	3	3	10	28	37	48	0	77.5
Jefferson.....	165	0	1	0	6	1	8	12	17	24	53	43	0	71.7
Jewell.....	51	0	0	0	0	0	0	2	1	9	17	22	0	82.2
Johnson.....	2,861	30	5	9	33	42	85	167	248	409	894	939	0	74.7
Kearny.....	51	1	0	0	1	1	1	1	4	11	16	15	0	73.9
Kingman.....	122	0	0	1	2	0	3	4	5	25	33	49	0	77.3
Kiowa.....	25	0	0	0	0	0	1	2	1	1	9	11	0	80.2
Labette.....	302	1	0	0	7	4	9	11	25	35	92	118	0	76.8
Lane.....	39	1	0	0	0	1	4	2	0	3	11	17	0	74.5
Leavenworth.....	524	8	2	2	7	5	22	40	48	86	151	153	0	72.5
Lincoln.....	48	1	0	0	1	0	1	5	3	6	13	18	0	74.7
Linn.....	106	1	0	2	4	2	1	2	14	17	38	25	0	71.8
Logan.....	37	0	0	0	1	0	1	0	1	4	16	14	0	79.0

Table 41
 Deaths By Age-Group And Average Age At Death
 By County Of Residence
 Kansas, 2002

County of Residence	Total	Age-Group												Average Age At Death	
		Under 1	1-4	5-14	15-24	25-34	35-44	45-54	55-64	65-74	75-84	85 and over	N.S.		
Lyon.....	290	2	0	2	7	3	6	21	19	37	90	102	1	75.2	
Marion.....	211	2	1	2	1	2	2	8	12	30	54	97	0	78.4	
Marshall.....	134	1	0	0	2	1	2	6	6	23	38	55	0	78.5	
McPherson.....	380	2	2	0	5	3	9	8	23	50	111	167	0	78.6	
Meade.....	48	0	0	0	0	1	1	1	2	6	16	21	0	80.0	
Miami.....	254	1	0	1	3	1	8	21	26	46	74	73	0	74.1	
Mitchell.....	91	0	0	0	0	0	0	3	5	9	17	57	0	83.3	
Montgomery....	487	7	2	0	1	1	19	23	48	66	141	179	0	75.8	
Morris.....	73	0	0	1	0	0	0	2	3	2	15	26	0	77.7	
Morton.....	32	0	2	0	0	0	0	0	1	5	5	10	9	0	72.5
Nemaha.....	136	0	0	1	0	0	0	4	4	13	38	76	0	83.4	
Neosho.....	193	2	0	0	1	0	8	10	16	25	62	69	0	76.7	
Ness.....	47	1	0	0	2	0	0	4	1	8	13	18	0	74.7	
Norton.....	64	0	0	0	0	0	1	1	5	9	20	28	0	81.8	
Osage.....	184	1	0	0	2	2	9	9	16	24	52	69	0	75.4	
Osborne.....	70	0	0	0	0	0	0	4	2	17	16	31	0	80.6	
Ottawa.....	77	0	0	0	2	0	2	5	5	11	26	26	0	76.3	
Pawnee.....	92	1	0	0	2	0	2	11	5	13	27	31	0	74.0	
Phillips.....	119	0	0	0	2	3	1	3	6	17	34	53	0	79.0	
Pottawatomie..	161	5	0	0	1	3	3	10	16	34	32	57	0	73.5	
Pratt.....	121	3	0	0	2	0	5	5	6	17	37	46	0	75.4	
Rawlins.....	34	0	0	0	0	0	0	1	5	7	6	15	0	78.3	
Reno.....	701	3	1	3	4	5	15	37	63	109	198	263	0	76.7	
Republic.....	103	0	0	0	0	0	1	5	11	15	30	41	0	78.8	
Rice.....	123	0	0	0	3	0	0	5	10	18	39	48	0	78.6	
Riley.....	326	4	1	0	5	5	8	14	26	38	93	132	0	76.5	
Rooks.....	72	0	0	0	1	2	1	3	4	9	22	30	0	78.4	
Rush.....	66	0	1	0	1	0	2	3	4	11	11	33	0	78.5	
Russell.....	94	1	0	0	0	0	1	3	5	14	34	36	0	79.2	
Saline.....	467	6	2	4	4	6	19	25	40	81	142	138	0	73.2	
Scott.....	64	2	0	0	0	0	0	3	6	12	17	24	0	76.2	
Sedgwick.....	3,847	76	21	13	77	53	161	298	379	603	1,152	1,014	0	70.9	
Seward.....	126	5	1	3	3	0	6	17	17	16	23	35	0	65.7	
Shawnee.....	1,702	18	0	2	16	18	66	126	168	319	464	504	1	73.6	
Sheridan.....	35	0	0	0	1	1	0	2	1	3	13	14	0	77.1	
Sherman.....	79	1	0	0	1	1	1	4	6	10	27	28	0	76.9	
Smith.....	60	0	0	0	2	0	1	3	4	8	15	27	0	78.5	
Stafford.....	81	0	0	0	1	2	1	1	5	7	21	43	0	80.8	
Stanton.....	21	0	1	0	2	0	1	0	4	3	4	6	0	68.0	
Stevens.....	38	0	0	0	0	0	1	1	7	7	7	15	0	76.5	
Sumner.....	270	1	0	0	7	3	8	16	19	36	86	94	0	75.2	
Thomas.....	78	0	0	0	2	2	1	7	1	11	25	29	0	76.2	
Trego.....	46	0	0	0	0	1	1	1	5	4	13	21	0	79.4	
Wabaunsee....	55	0	0	0	1	1	2	0	7	8	19	17	0	75.2	
Wallace.....	21	0	0	0	0	0	1	1	3	2	6	8	0	76.0	
Washington....	96	0	0	0	1	1	3	3	7	13	23	45	0	78.8	
Wichita.....	29	1	0	0	0	0	0	0	0	5	9	14	0	80.0	
Wilson.....	134	0	1	0	3	0	5	7	12	27	34	45	0	74.6	
Woodson.....	69	0	0	0	0	1	3	4	6	8	15	32	0	78.2	
Wyandotte....	1,588	28	3	7	35	33	87	138	191	298	439	329	0	68.7	

Table 42
 Deaths By Race/Hispanic Origin And Sex By Age-Group And Average Age At Death
 Kansas, 2002

Race and Sex	Total	Age-Group													Average Age At Death
		Under 1	1-4	5-14	15-24	25-34	35-44	45-54	55-64	65-74	75-84	85 & Over	N.S.		
All Races.....	24,968	282	62	68	356	292	811	1,493	2,180	3,839	7,248	8,335	2	74.4	
Male.....	11,841	151	36	40	259	213	500	922	1,293	2,149	3,548	2,728	2	70.3	
Female.....	13,127	131	26	28	97	79	311	571	887	1,690	3,700	5,607	0	78.0	
White.....	23,407	227	53	59	303	253	692	1,318	1,955	3,573	6,914	8,058	2	75.1	
Male.....	11,057	119	29	34	219	182	435	809	1,172	2,016	3,398	2,642	2	71.1	
Female.....	12,350	108	24	25	84	71	257	509	783	1,557	3,516	5,416	0	78.6	
Black.....	1,312	44	8	6	46	32	94	151	185	219	287	240	0	64.1	
Male.....	664	25	7	4	35	24	49	102	100	111	129	78	0	60.0	
Female.....	648	19	1	2	11	8	45	49	85	108	158	162	0	68.8	
Other.....	239	9	1	3	7	7	23	23	40	45	46	35	0	61.8	
Male.....	113	5	0	2	5	7	14	10	21	20	21	8	0	57.0	
Female.....	126	4	1	1	2	0	9	13	19	25	25	27	0	66.5	
Not Stated.....	10	2	0	0	0	0	2	1	0	2	1	2	0	53.0	
Male.....	7	2	0	0	0	0	2	1	0	2	0	0	0	38.3	
Female.....	3	0	0	0	0	0	0	0	0	0	1	2	0	87.0	
Hispanic Origin.....	461	40	6	9	33	26	28	55	35	74	93	61	1	55.8	
Male.....	262	19	4	4	31	17	21	38	16	41	41	29	1	52.3	
Female.....	199	21	2	5	2	9	7	17	19	33	52	32	0	60.3	

Residence data

Table 43
 Ten Leading Causes Of Death By Sex, Race And Hispanic Origin Of Decedent
 Kansas, 2002

Sex and Race	Total	Causes of Death										
		Heart Disease	Malignant Neoplasms	Cerebro-vascular Disease	Chronic Lower Respiratory Diseases	Unintentional Injuries	Diabetes Mellitus	Alzheimer's Disease	Pneumonia and Influenza	Nephritis, Nephrotic Syndrome, Nephrosis	Atherosclerosis	All Other Causes
Total.....	24,968	6,640	5,345	1,840	1,366	1,125	763	752	690	512	340	5,595
Male.....	11,841	3,174	2,742	686	683	712	327	230	295	231	102	2,659
White.....	11,057	2,996	2,547	641	653	662	295	220	288	215	95	2,445
Black.....	664	142	164	38	27	39	30	10	7	13	7	187
Native American.....	75	24	17	4	3	7	2	0	0	2	0	16
Other.....	38	10	13	3	0	4	0	0	0	0	0	8
Not Stated.....	7	2	1	0	0	0	0	0	0	1	0	3
Hispanic Origin*....	262	42	34	16	4	46	12	3	5	3	0	97
Female.....	13,127	3,466	2,603	1,154	683	413	436	522	395	281	238	2,936
White.....	12,350	3,280	2,439	1,100	655	392	390	507	382	244	228	2,733
Black.....	648	159	129	44	21	19	43	14	11	35	7	166
Native American.....	71	15	16	6	5	2	3	0	2	1	1	20
Other.....	55	11	19	4	2	0	0	1	0	1	2	15
Not Stated.....	3	1	0	0	0	0	0	0	0	0	0	2
Hispanic Origin*....	199	32	31	16	2	14	18	3	5	5	2	71

* Hispanic origin can be of any race.

Residence data

Table 44
Selected Causes Of Death By Age-Group
And Average Age At Death
Kansas, 2002

Selected Causes of Death (ICD-10 Code)	Total	Age-Group											Average Age at Death	
		Under 1	1-4	5-14	15-24	25-34	35-44	45-54	55-64	65-74	75-84	85 & Over		
All Causes.....	24,968	282	62	68	356	292	811	1,493	2,180	3,839	7,248	8,335	2	74.4
Selected Causes.....	20,421	81	43	51	322	244	637	1,250	1,860	3,264	5,981	6,687	1	n.a.
Tuberculosis (A16-A19).....	5	0	0	0	0	0	0	2	0	1	2	0	0	64.6
HIV/AIDS (B20-B24).....	37	0	0	0	1	7	17	10	2	0	0	0	0	41.9
Malignant Neoplasms (C00-C97).....	5,345	1	7	6	17	29	166	457	788	1,273	1,675	926	0	71.6
Diabetes mellitus (E10-E14).....	763	0	0	0	1	4	23	47	95	157	236	200	0	74.5
Alzheimer's Disease (G30).....	752	0	0	0	0	0	0	0	5	40	250	457	0	86.1
Hypertension and Hypertensive Renal Disease (I10,I12).....	191	0	0	0	0	0	0	1	11	17	49	113	0	84.5
Heart Disease (I00-I09,I11,I13,I20-I51).....	6,640	0	2	2	4	15	100	336	500	961	1,965	2,754	1	79.2
Cerebrovascular Disease (I60-I69).....	1,840	1	1	1	0	4	17	46	78	189	582	921	0	82.2
Atherosclerosis (I70).....	340	0	0	0	0	0	0	1	4	21	103	211	0	86.7
Pneumonia and Influenza (J10-J18).....	690	1	1	0	0	4	8	11	29	65	197	374	0	83.1
Chronic Lower Respiratory Diseases (J40-J47).....	1,366	0	0	1	1	4	14	33	133	311	538	331	0	76.6
Peptic Ulcer (K25-K28).....	45	0	0	0	0	0	1	0	6	5	17	16	0	78.6
Chronic Liver Disease and Cirrhosis (K70, K73-K74).....	182	0	1	0	0	1	26	42	49	27	24	12	0	59.9
Nephritis, Nephrotic Syndrome and Nephrosis (N00-N07, N17-N19, N25-N27).....	512	1	0	0	1	1	4	13	34	79	168	211	0	80.0
Congenital Anomalies (Q00-Q99).....	116	63	7	4	3	5	4	5	11	5	2	7	0	21.2
Unintentional Injuries (V01-X59, Y40-Y86, Y88).....	1,125	12	18	32	196	96	164	159	78	86	146	138	0	49.9
Suicide (X60-X84,Y87.0).....	346	0	0	3	62	45	72	70	34	21	25	14	0	45.2
Homicide (X85-Y09,Y87.1).....	126	2	6	2	36	29	21	17	3	6	2	2	0	33.7

Residence data

Table 45
Ten Leading Causes Of Death By Sex,
Number, Rate And Average Age At Death
Kansas, 2002

Leading Causes of Death (ICD-10 Code)	Number of Deaths			Cause-Specific Death Rate*			Average Age at Death		
	Total	Male	Female	Total	Male	Female	Total	Male	Female
All Causes.....	24,968	11,841	13,127	919.3	881.1	956.7	74.4	70.3	78.0
Heart Disease (I00-I09, I11, I13, I20-I51).....	6,640	3,174	3,466	244.5	236.2	252.6	79.2	75.0	83.0
Malignant Neoplasms (C00-C97).....	5,345	2,742	2,603	196.8	204.0	189.7	71.6	71.1	72.1
Cerebrovascular Disease (I60-I69).....	1,840	686	1,154	67.7	51.0	84.1	82.2	78.8	84.1
Chronic Lower Respiratory Diseases (J40-J47).....	1,366	683	683	50.3	50.8	49.8	76.6	76.0	77.1
Unintentional Injuries (V01-X59, Y40-Y86, Y88).....	1,125	712	413	41.4	53.0	30.1	49.9	45.5	57.5
Diabetes mellitus (E10-E14).....	763	327	436	28.1	24.3	31.8	74.5	71.6	76.7
Alzheimer's Disease (G30).....	752	230	522	27.7	17.1	38.0	86.1	83.6	87.2
Pneumonia and Influenza (J10-J18).....	690	295	395	25.4	22.0	28.8	83.1	81.2	84.5
Nephritis, Nephrotic Syndrome and Nephrosis (N00-N07, N17-N19, N25-N27)...	512	231	281	18.9	17.2	20.5	80.0	78.1	81.6
Atherosclerosis (I70).....	340	102	238	12.5	7.6	17.3	86.7	83.5	88.1

*Rate per 100,000 population

Note: Rates are based on 2002 population estimates from the United States Bureau of the Census.

Residence data

Table 46
Death Rates* and Age-Adjusted Death Rates**
For Selected Leading Causes of Death
Kansas, 2002

Cause of Death (ICD-10 Code)	Number	Death Rate	Age-Adjusted Death Rate
All Causes.....	24,968	919.3	841.6
Heart Disease (I00-I09, I11, I13, I20-I51).....	6,640	244.5	219.2
Malignant Neoplasms (C00-C97).....	5,345	196.8	187.5
Cerebrovascular Disease (I60-I69).....	1,840	67.7	59.3
Chronic Lower Respiratory Diseases (J40-J47).....	1,366	50.3	46.9
Unintentional Injuries (V01-X59, Y40-Y86, Y88).....	1,125	41.4	40.0
Pneumonia and Influenza (J10-J18).....	690	25.4	22.1
Diabetes mellitus (E10-E14).....	763	28.1	26.2
Alzheimer's Disease (G30).....	752	27.7	23.5
Nephritis, Nephrotic Syndrome and Nephrosis (N00-N07, N17-N19, N25-N27).....	512	18.9	16.9
Atherosclerosis (I70).....	340	12.5	10.6
Suicide (X60-X84, Y87.0).....	346	12.7	12.6
Chronic Liver Disease and Cirrhosis (K70, K73-K74).....	182	6.7	6.6
Hypertension and Hypertensive Renal Disease (I10, I12).....	191	7.0	6.0
Homicide (X85-Y09, Y87.1).....	126	4.6	4.6
Congenital Anomalies (Q00-Q99).....	116	4.3	4.2
Certain Conditions Originating in the Perinatal Period (P00-P96).....	140	5.2	5.0

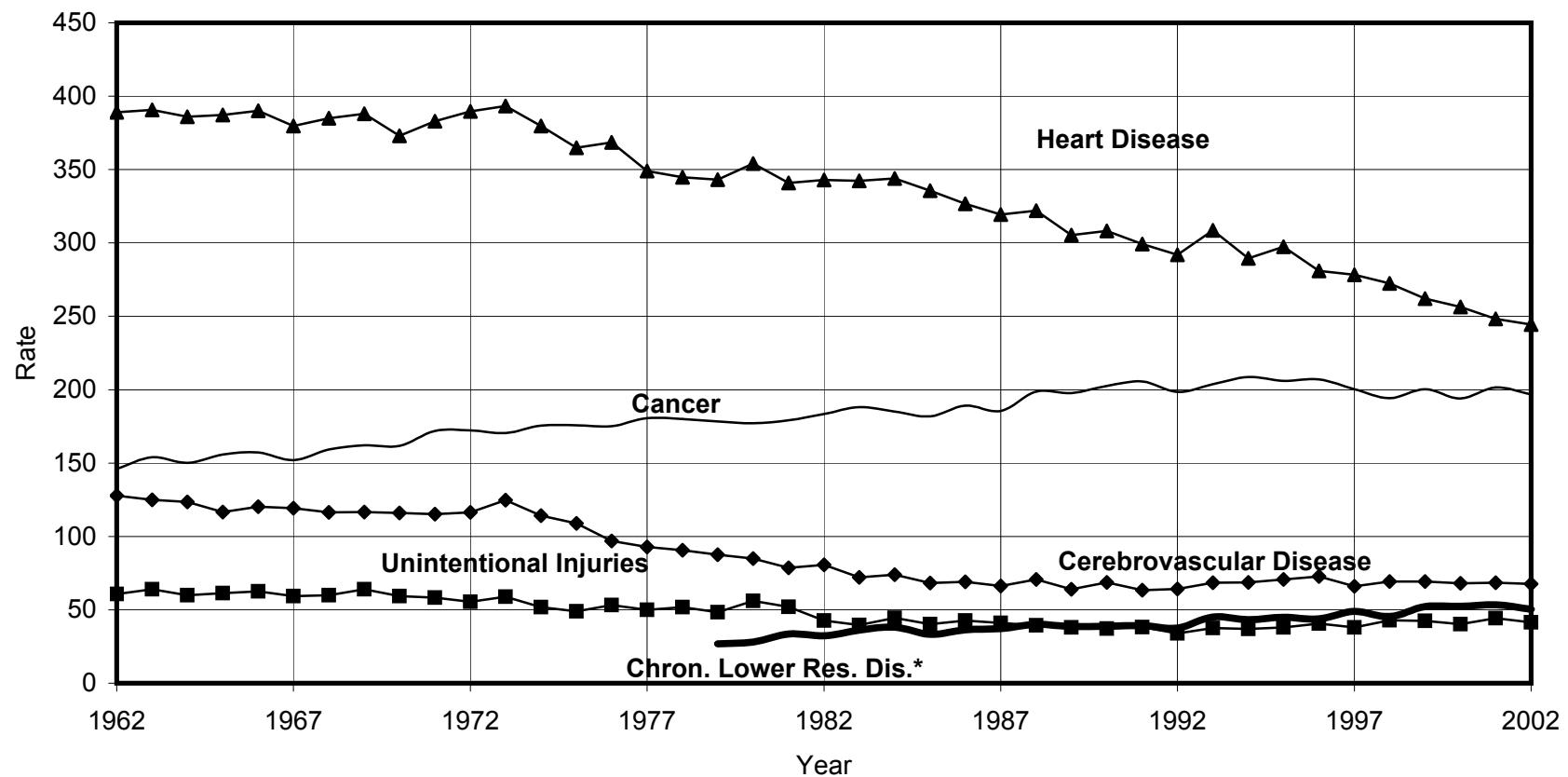
*Rate per 100,000 population

**Rate per 100,000 standard U.S. 2000 population (see Technical Notes)

Residence data

Death Rates for Selected Leading Causes of Death

Kansas, 1962-2002



*Formerly identified as Chronic Obstructive Pulmonary

Disease. Reporting began in 1979

Rate per 100,000 Population

Residence Data

Figure 33

Leading Causes of Death By Age-Group*

Kansas, 2002

ALL AGES	
CAUSE	NUMBER
HEART DISEASE	6,640
CANCER	5,345
CEREBROVASC. DIS.	1,840
CHRON. LOWER RESP. DIS.	1,366
UNINTENTIONAL INJURIES	1,125
OTHER CAUSES	8,652
TOTAL	24,968

UNDER 1 YEAR	
CAUSE	NUMBER
LENGTH GEST./FETAL GROWTH	65
CONGENITAL ANOMALIES	63
SIDS	46
MATERNAL FACTORS & COMPL.	21
RESPIRATORY DISORDERS	10
OTHER CAUSES	77
TOTAL	282

1-4 YEARS	
CAUSE	NUMBER
UNINTENTIONAL INJURIES	18
HOMICIDE	6
CONGENITAL ANOMALIES	7
CANCER	7
INFECT./PARASITIC DIS.	4
OTHER CAUSES	20
TOTAL	62

5-14 YEARS	
CAUSE	NUMBER
UNINTENTIONAL INJURIES	32
CANCER	6
CONGENITAL ANOMALIES	4
INFANTILE CEREBRAL PALSY	3
SUICIDE	3
OTHER CAUSES	20
TOTAL	68

15-24 YEARS	
CAUSE	NUMBER
UNINTENTIONAL INJURIES	196
SUICIDE	62
HOMICIDE	36
CANCER	17
HEART DISEASE	4
OTHER CAUSES	41
TOTAL	356

25-44 YEARS	
CAUSE	NUMBER
UNINTENTIONAL INJURIES	260
CANCER	195
SUICIDE	117
HEART DISEASE	115
HOMICIDE	50
OTHER CAUSES	366
TOTAL	1,103

45-64 YEARS	
CAUSE	NUMBER
CANCER	1,245
HEART DISEASE	836
UNINTENTIONAL INJURIES	237
DIABETES	142
CHRON. LOWER RESP. DIS.	166
OTHER CAUSES	1,047
TOTAL	3,673

65-84 YEARS	
CAUSE	NUMBER
CANCER	2,948
HEART DISEASE	2,926
CHRON. LOWER RESP. DIS.	849
CEREBROVASC. DIS.	771
DIABETES	393
OTHER CAUSES	3,200
TOTAL	11,087

85 YEARS AND OVER	
CAUSE	NUMBER
HEART DISEASE	2,754
CANCER	926
CEREBROVASC. DIS.	921
ALZHEIMER'S DISEASE	457
CHRON. LOWER RESP. DIS.	331
OTHER CAUSES	2,946
TOTAL	8,335

*Two ages at death unknown

Figure 34

Table 47
Heart Disease Deaths By Age-Group And Sex Of Decedent
Kansas, 2002

Causes of Death and Sex of Decedent (ICD Code)	Total	Age-Group											
		Under 1	1-4	5-14	15-24	25-34	35-44	45-54	55-64	65-74	75-84	85 & Over	N.S.
Heart Disease (I00-I09, I11, I13, I20-I51).....	6,640	0	2	2	4	15	100	336	500	961	1,965	2,754	1
Male.....	3,174	0	2	0	1	10	66	248	347	600	1,022	877	1
Female.....	3,466	0	0	2	3	5	34	88	153	361	943	1,877	0
Acute Rheumatic Fever and Chronic Rheumatic Heart Disease (I00-I09).....	37	0	0	0	0	0	0	3	8	9	13	4	0
Male.....	5	0	0	0	0	0	0	0	1	3	0	1	0
Female.....	32	0	0	0	0	0	0	3	7	6	13	3	0
Hypertensive Heart Disease with or without Renal Disease (I11, I13).....	141	0	0	0	0	1	4	7	11	14	29	75	0
Male.....	55	0	0	0	0	1	2	5	8	6	12	21	0
Female.....	86	0	0	0	0	0	2	2	3	8	17	54	0
Ischemic Heart Disease (I20-I25).....	4,165	0	0	0	0	8	56	240	333	673	1308	1547	0
Male.....	2,184	0	0	0	0	6	42	185	241	448	719	543	0
Female.....	1,981	0	0	0	0	2	14	55	92	225	589	1,004	0
Pulmonary Heart Disease and Diseases of Pulmonary Circulation (I26-I28).....	189	0	0	0	0	0	8	18	30	40	58	35	0
Male.....	83	0	0	0	0	0	3	8	13	26	21	12	0
Female.....	106	0	0	0	0	0	5	10	17	14	37	23	0
Other Forms of Heart Disease (I30-I51).....	2,108	0	2	2	4	6	32	68	118	225	557	1093	1
Male.....	847	0	2	0	1	3	19	50	84	117	270	300	1
Female.....	1,261	0	0	2	3	3	13	18	34	108	287	793	0

Residence data

Table 48
Malignant Neoplasm Deaths
By Site Of Lesion, Age-Group And Sex Of Decedent
Kansas, 2002

Site of Lesion and Sex of Decedent (ICD-10 Code)	Total	Age-Group										
		Under 1	1-4	5-14	15-24	25-34	35-44	45-54	55-64	65-74	75-84	85 & Over
Malignant Neoplasms (All Sites)												
(C00-C97).....	5,345	1	7	6	17	29	166	457	788	1,273	1,675	926
Male.....	2,742	1	4	3	11	14	79	219	420	714	869	408
Female.....	2,603	0	3	3	6	15	87	238	368	559	806	518
Lip, Oral Cavity and Pharynx												
(C00-C14).....	63	0	0	0	0	0	4	6	16	10	19	8
Male.....	44	0	0	0	0	0	2	5	14	5	14	4
Female.....	19	0	0	0	0	0	2	1	2	5	5	4
Digestive Organs												
(C15-C26).....	1,208	0	1	0	1	7	36	94	149	282	398	240
Male.....	641	0	1	0	1	5	19	61	87	179	211	77
Female.....	567	0	0	0	0	2	17	33	62	103	187	163
Respiratory and Intrathoracic Organs												
(C30-C39).....	1,527	0	0	0	1	0	35	115	280	487	478	131
Male.....	888	0	0	0	1	0	23	68	169	282	270	75
Female.....	639	0	0	0	0	0	12	47	111	205	208	56
Bone and Articular Cartilage												
(C40-C41).....	13	0	0	0	1	2	1	2	1	1	2	3
Male.....	5	0	0	0	0	1	1	0	1	0	1	1
Female.....	8	0	0	0	1	1	0	2	0	1	1	2
Skin												
(C43-C44).....	94	0	0	0	0	2	4	17	15	11	23	22
Male.....	63	0	0	0	0	2	2	13	12	7	14	13
Female.....	31	0	0	0	0	0	2	4	3	4	9	9
Mesothelial and Soft Tissue												
(C45-C49).....	68	0	0	1	4	2	5	3	6	15	24	8
Male.....	43	0	0	1	4	2	4	1	3	9	15	4
Female.....	25	0	0	0	0	0	1	2	3	6	9	4
Breast												
(C50).....	425	0	0	0	0	2	26	71	75	77	90	84
Male.....	6	0	0	0	0	0	0	0	1	1	1	3
Female.....	419	0	0	0	0	2	26	71	74	76	89	81
Genital Organs												
(C51-C63).....	583	0	0	0	2	4	21	35	55	104	196	166
Male.....	318	0	0	0	1	0	5	3	19	54	119	117
Female.....	265	0	0	0	1	4	16	32	36	50	77	49
Urinary Tract												
(C64-C68).....	274	0	1	0	0	0	2	26	29	64	84	68
Male.....	179	0	0	0	0	0	2	20	20	45	54	38
Female.....	95	0	1	0	0	0	0	6	9	19	30	30
Eye and Adnexa												
(C69).....	3	0	0	0	0	0	1	0	1	1	0	0
Male.....	0	0	0	0	0	0	0	0	0	0	0	0
Female.....	3	0	0	0	0	0	1	0	1	1	0	0
Meninges, Brain and Other Parts of Central Nervous System												
(C70-C72).....	152	0	1	1	2	4	15	24	28	28	33	16
Male.....	84	0	0	0	1	1	10	16	18	12	18	8
Female.....	68	0	1	1	1	3	5	8	10	16	15	8
Thyroid and Other Endocrine Glands												
(C73-C75).....	19	0	0	1	0	0	0	1	3	2	8	4
Male.....	8	0	0	1	0	0	0	0	2	0	5	0
Female.....	11	0	0	0	0	0	0	1	1	2	3	4
Other and Unspecified Sites												
(C76-C80, C97).....	349	0	0	0	1	0	2	26	51	77	120	72
Male.....	167	0	0	0	1	0	1	14	27	43	50	31
Female.....	182	0	0	0	0	0	1	12	24	34	70	41
Leukemia												
(C91-C95).....	220	1	2	3	4	4	9	12	32	36	63	54
Male.....	121	1	1	1	2	3	7	7	19	27	33	20
Female.....	99	0	1	2	2	1	2	5	13	9	30	34
Other Lymphoid, Hematopoietic, and Related Tissue												
(C81-C90, C96).....	347	0	2	0	1	2	5	25	47	78	137	50
Male.....	175	0	2	0	0	0	3	11	28	50	64	17
Female.....	172	0	0	0	1	2	2	14	19	28	73	33

Residence data

Table 49
 Cerebrovascular Disease Deaths By Age-Group And Sex Of Decedent
 Kansas, 2002

Cause of Death and Sex of Decedent (ICD-10 Code)	Total	Age-Group										
		Under 1	1-4	5-14	15-24	25-34	35-44	45-54	55-64	65-74	75-84	85 & Over
Cerebrovascular Disease (I60-I69).....	1,840	1	1	1	0	4	17	46	78	189	582	921
Male.....	686	1	1	0	0	2	8	27	47	106	240	254
Female.....	1,154	0	0	1	0	2	9	19	31	83	342	667
Subarachnoid Hemorrhage (I60).....	46	0	0	1	0	3	6	10	13	6	3	4
Male.....	15	0	0	0	0	1	2	4	4	3	1	0
Female.....	31	0	0	1	0	2	4	6	9	3	2	4
Intracerebral and Other Intracranial Hemorrhage (I61-I62).....	279	0	0	0	0	1	7	17	25	51	101	77
Male.....	123	0	0	0	0	1	5	8	16	24	44	25
Female.....	156	0	0	0	0	0	2	9	9	27	57	52
Cerebral Infarction (I63).....	124	0	0	0	0	0	0	3	6	14	38	63
Male.....	45	0	0	0	0	0	0	2	4	8	16	15
Female.....	79	0	0	0	0	0	0	1	2	6	22	48
Stroke, Not Specified as Hemorrhage or Infarction (I64).....	1,067	0	0	0	0	0	3	15	28	98	345	578
Male.....	393	0	0	0	0	0	1	12	21	57	138	164
Female.....	674	0	0	0	0	0	2	3	7	41	207	414
Other Cerebrovascular Diseases (I67, I69).....	324	1	1	0	0	0	1	1	6	20	95	199
Male.....	110	1	1	0	0	0	0	1	2	14	41	50
Female.....	214	0	0	0	0	0	1	0	4	6	54	149

Residence data

Table 50
Unintentional Injury Deaths By Age-Group And Sex Of Decedent
Kansas, 2002

Cause of Death and Sex of Decedent (ICD-10 Code)	Total	Age-Group										
		Under 1	1-4	5-14	15-24	25-34	35-44	45-54	55-64	65-74	75-84	85 & Over
Unintentional Injuries												
(V01-X59, Y40-Y86, Y88).....	1,125	12	18	32	196	96	164	159	78	86	146	138
Male.....	712	8	13	19	146	79	107	100	58	55	83	44
Female.....	413	4	5	13	50	17	57	59	20	31	63	94
Motor-Vehicle												
(*).....	547	1	9	19	164	71	75	74	47	30	42	15
Male.....	371	1	5	9	115	56	48	48	38	18	28	5
Female.....	176	0	4	10	49	15	27	26	9	12	14	10
Water Transport												
(V90-V94).....	4	0	0	0	0	0	2	0	1	1	0	0
Male.....	4	0	0	0	0	0	2	0	1	1	0	0
Female.....	0	0	0	0	0	0	0	0	0	0	0	0
Air and Space Transport												
(V95-V97).....	3	0	0	0	0	0	0	0	2	0	1	0
Male.....	3	0	0	0	0	0	0	0	2	0	1	0
Female.....	0	0	0	0	0	0	0	0	0	0	0	0
Falls												
(W00-W19).....	170	0	0	0	2	0	10	6	10	21	55	66
Male.....	89	0	0	0	2	0	7	4	8	14	30	24
Female.....	81	0	0	0	0	0	3	2	2	7	25	42
Inanimate Mechanical Forces												
(W20-W49).....	42	1	2	0	7	2	8	8	6	4	4	0
Male.....	39	1	2	0	7	2	8	7	5	4	3	0
Female.....	3	0	0	0	0	0	0	1	1	0	1	0
Drowning and Submersion												
(W65-W74).....	23	2	3	1	9	2	3	3	0	0	0	0
Male.....	18	0	2	1	9	2	3	1	0	0	0	0
Female.....	5	2	1	0	0	0	0	2	0	0	0	0
Other Accidental Threats												
to Breathing												
(W75-W84).....	79	8	1	4	2	2	7	3	4	9	14	25
Male.....	44	6	1	4	2	2	4	1	3	6	6	9
Female.....	35	2	0	0	0	0	3	2	1	3	8	16
Electric Current, Radiation and Air Temperature/Pressure												
(W85-W99).....	9	0	0	0	3	1	3	2	0	0	0	0
Male.....	9	0	0	0	3	1	3	2	0	0	0	0
Female	0	0	0	0	0	0	0	0	0	0	0	0
Smoke, Fire and Flames												
(X00-X09).....	32	0	3	2	0	1	5	7	4	4	5	1
Male.....	21	0	3	2	0	1	3	4	1	3	4	0
Female.....	11	0	0	0	0	0	2	3	3	1	1	1
Forces of Nature												
(X30-X39).....	9	0	0	0	0	0	1	3	0	3	0	2
Male.....	5	0	0	0	0	0	0	3	0	2	0	0
Female.....	4	0	0	0	0	0	1	0	0	1	0	2
Poisonings												
(X40-X49).....	116	0	0	0	6	12	45	49	1	1	1	1
Male.....	71	0	0	0	6	10	25	29	0	1	0	0
Female.....	45	0	0	0	0	2	20	20	1	0	1	1
Other Unintentional Injuries												
(**).....	91	0	0	6	3	5	5	4	3	13	24	28
Male.....	38	0	0	3	2	5	4	1	0	6	11	6
Female.....	53	0	0	3	1	0	1	3	3	7	13	22

* V02-V04, V09.0, V09.2, V12-V14, V19.0-V19.2, V19.4-V19.6, V20-V79, V80.3-V80.5, V81.0-V81.1, V82.0-V82.1, V83-V86, V87.0-V87.8, V88.0-V88.8, V89.0, V89.2

** V01, V05-V06, V09.1, V09.3-V09.9, V10-V11, V15-V18, V19.3, V19.8-V19.9, V80.0-V80.2, V80.6-V80.9, V81.2-V81.9, V82.2-V82.9, V87.9, V88.9, V89.1, V89.3, V89.9, V98-V99, W50-W64, X10-X29, X50-X59, Y40-Y86, Y88

Table 51
Selected Chronic Disease Deaths By Age-Group And Sex Of Decedent
Kansas, 2002

Cause of Death and Sex of Decedent (ICD-10 Code)	Total	Age-Group										
		Under 1	1-4	5-14	15-24	25-34	35-44	45-54	55-64	65-74	75-84	85 & Over
Total.....	3,399	1	1	1	3	10	68	137	332	617	1,135	1,094
Male.....	1,555	1	0	1	1	5	46	87	193	298	536	387
Female.....	1,844	0	1	0	2	5	22	50	139	319	599	707
Diabetes mellitus (E10-E14).....	763	0	0	0	1	4	23	47	95	157	236	200
Male.....	327	0	0	0	0	1	17	26	53	72	97	61
Female.....	436	0	0	0	1	3	6	21	42	85	139	139
Hypertension and Hypertensive Renal Disease (I10, I12).....	191	0	0	0	0	0	0	1	11	17	49	113
Male.....	76	0	0	0	0	0	0	0	9	8	22	37
Female.....	115	0	0	0	0	0	0	1	2	9	27	76
Atherosclerosis (I70).....	340	0	0	0	0	0	0	1	4	21	103	211
Male.....	102	0	0	0	0	0	0	1	3	10	39	49
Female.....	238	0	0	0	0	0	0	0	1	11	64	162
Chronic Lower Respiratory Diseases (J40-J47).....	1,366	0	0	1	1	4	14	33	133	311	538	331
Male.....	683	0	0	1	1	2	9	17	70	152	280	151
Female.....	683	0	0	0	0	2	5	16	63	159	258	180
Peptic Ulcer (K25-K28).....	45	0	0	0	0	0	1	0	6	5	17	16
Male.....	23	0	0	0	0	0	1	0	6	5	7	4
Female.....	22	0	0	0	0	0	0	0	0	0	10	12
Chronic Liver Disease and Cirrhosis (K70, K73-K74).....	182	0	1	0	0	1	26	42	49	27	24	12
Male.....	113	0	0	0	0	1	16	32	37	14	8	5
Female.....	69	0	1	0	0	0	10	10	12	13	16	7
Nephritis, Nephrotic Syndrome, and Nephrosis (N00-N07, N17-N19, N25-N27).....	512	1	0	0	1	1	4	13	34	79	168	211
Male.....	231	1	0	0	0	1	3	11	15	37	83	80
Female.....	281	0	0	0	1	0	1	2	19	42	85	131

Table 52
Occupation Of Decedent By
Selected Causes Of Death
Kansas, 2002

Occupation of Decedent	Total	Selected Causes of Death											
		Heart Disease	Malignant Neoplasms	Cerebro-vascular Disease	Unintentional Injuries	Chronic Lower Respiratory Diseases	Suicide	Atherosclerosis	Chronic Liver Disease and Cirrhosis	Homicide	Peptic Ulcer	Hypertension	All Other Causes
Total.....	24,968	6,640	5,345	1,840	1,125	1,366	346	340	182	126	45	191	7,422
Housewives.....	5,717	1,677	939	546	138	309	19	106	21	6	13	54	1,889
Managerial and Professional Specialty.....	4,358	1,157	1,084	323	147	176	56	67	39	8	7	31	1,263
Technical, Sales and Administrative Support.....	4,359	1,139	1,049	336	149	257	43	70	32	17	9	29	1,229
Operators, Fabricators and Laborers.....	2,913	724	669	161	204	210	85	31	36	35	4	23	731
Farming, Forestry and Fishing.....	1,753	529	356	127	73	86	20	15	9	2	1	15	520
Precision Production, Craft and Repair.....	2,380	640	596	142	139	168	49	19	18	9	4	20	576
Service Workers.....	2,076	551	451	156	84	120	27	25	18	17	3	15	609
No Occupation.....	335	62	35	11	34	13	11	3	5	11	1	3	146
Students.....	188	4	15	1	106	1	24	0	0	8	0	0	29
Children Under 5 Years.....	345	3	8	2	30	0	0	0	1	8	0	0	293
Other and N.S.....	544	154	143	35	21	26	12	4	3	5	3	1	137

Residence data

Table 53
Type Of Industry Of Decedent's Occupation By Selected Causes Of Death
Kansas, 2002

Type of Industry	Total	Selected Causes of Death												
		Heart Disease	Malignant Neoplasms	Cerebro-vascular Disease	Unintentional Injuries	Chronic Lower Respiratory Diseases	Suicide	Atherosclerosis	Chronic Liver Disease and Cirrhosis	Homicide	Peptic Ulcer	Hypertension	All Other Causes	
Total.....	24,968	6,640	5,345	1,840	1,125	1,366	346	340	182	126	45	191	7,422	
Professional Services.....	3,748	981	891	277	114	163	34	66	26	7	6	28	1,155	
Agriculture, Forestry and Fisheries.....	1,799	538	367	129	75	89	20	15	9	2	1	15	539	
Manufacturing.....	2,758	706	635	185	133	180	54	42	27	16	7	28	745	
Retail Trade.....	2,391	641	530	180	101	132	30	32	19	18	1	21	686	
Transportation, Communications and Public Utilities.....	1,832	508	450	117	86	112	27	17	18	6	4	12	475	
Construction.....	1,487	370	377	80	130	112	53	9	16	11	3	9	317	
Public Administration.....	1,034	271	255	69	30	68	17	13	5	3	2	3	298	
Business and Repair Services.....	592	156	137	44	30	33	18	10	5	10	1	1	147	
Personal Services.....	565	141	106	55	28	42	3	8	8	6	1	7	160	
Finance, Insurance and Real Estate.....	768	201	227	54	32	32	8	12	7	5	1	3	186	
Wholesale Trade.....	576	158	157	37	20	29	7	4	5	2	1	6	150	
Mining.....	194	57	56	8	16	14	2	0	4	0	0	0	37	
Entertainment and Recreation Services.....	50	11	15	2	1	2	1	0	2	0	0	0	16	
Other and N.S.*.....	7,174	1,901	1,142	603	329	358	72	112	31	40	17	58	2,511	

*This category includes housewives, military personnel, students, children and those who were never employed.
Residence data

Table 54
Selected Causes Of Death And Years Of Potential Life Lost (YPLL)
Before Life Expectancy*
Kansas, 2002

CAUSE OF DEATH (ICD-10)	Number of Deaths	Total Years Life Lost	Percent Years Lost By Cause	Rate** Years Lost By Cause
Total Deaths	24,968	198,887	100.0	73.2
Heart Disease (I00-I09, I11, I13, I20-I51)	6,640	29,203	14.7	10.8
Cancer (C00-C97)	5,345	44,266	22.3	16.3
Cerebrovascular Disease (I60-I69)	1,840	4,851	2.4	1.8
Chronic Lower Respiratory Dis. (J40-J47)	1,366	6,100	3.1	2.2
Unintentional Inj. (V01-X59, Y40-Y86, Y88)	1,125	32,676	16.4	12.0
Diabetes (E10-E14)	763	5,042	2.5	1.9
Alzheimer's Disease (G30)	752	306	0.2	0.1
Pneumonia and Influenza (J10-J18)	690	1,843	0.9	0.7
Nephritis and Neph. Syn. (N00-N07, N17-N19, N25-N27)	512	1,797	0.9	0.7
Atherosclerosis (I70)	340	222	0.1	0.1
Suicide (X60-X84, Y87.0)	346	11,214	5.6	4.1
Chronic Liver Dis. and Cirrhosis (K70, K73-K74)	182	3,270	1.6	1.2
Homicide (X85-Y09, Y87.1)	126	5,488	2.8	2.0
All Other Causes	4,941	52,609	26.5	19.4
Male Deaths	11,841	108,321	100.0	80.6
Heart Disease (I00-I09, I11, I13, I20-I51)	3,174	16,798	15.5	12.5
Cancer (C00-C97)	2,742	19,301	17.8	14.4
Cerebrovascular Disease (I60-I69)	686	2,266	2.1	1.7
Chronic Lower Respiratory Dis. (J40-J47)	683	2,605	2.4	1.9
Unintentional Inj. (V01-X59, Y40-Y86, Y88)	712	21,659	20.0	16.1
Pneumonia and Influenza (J10-J18)	295	826	0.8	0.6
Diabetes (E10-E14)	327	2,326	2.1	1.7
Alzheimer's Disease (G30)	230	80	0.1	0.1
Nephritis and Neph. Syn. (N00-N07, N17-N19, N25-N27)	231	858	0.8	0.6
Atherosclerosis (I70)	102	109	0.1	0.1
Suicide (X60-X84, Y87.0)	286	8,637	8.0	6.4
Chronic Liver Dis. and Cirrhosis (K70, K73-K74)	113	2,010	1.8	1.5
Homicide (X85-Y09, Y87.1)	88	3,654	3.4	2.7
All Other Causes	2,172	27,192	25.1	20.2
Female Deaths	13,127	94,336	100.0	68.8
Heart Disease (I00-I09, I11, I13, I20-I51)	3,466	12,940	13.7	9.4
Cancer (C00-C97)	2,603	26,226	27.8	19.1
Cerebrovascular Disease (I60-I69)	1,154	3,240	3.4	2.4
Chronic Lower Respiratory Dis. (J40-J47)	683	4,047	4.3	2.9
Unintentional Inj. (V01-X59, Y40-Y86, Y88)	413	10,314	10.9	7.5
Pneumonia and Influenza (J10-J18)	395	1,196	1.3	0.9
Diabetes (E10-E14)	436	2,993	3.2	2.2
Alzheimer's Disease (G30)	522	561	0.6	0.4
Nephritis and Neph. Syn. (N00-N07, N17-N19, N25-N27)	281	1,120	1.2	0.8
Atherosclerosis (I70)	238	255	0.3	0.2
Suicide (X60-X84, Y87.0)	60	2,079	2.2	1.5
Chronic Liver Dis. and Cirrhosis (K70, K73-K74)	69	1,158	1.2	0.8
Homicide (X85-Y09, Y87.1)	38	1,703	1.8	1.2
All Other Causes	2,769	26,504	28.1	19.3

*Average remaining lifetime values compiled by the KDHE Center for Health and Environmental Statistics.

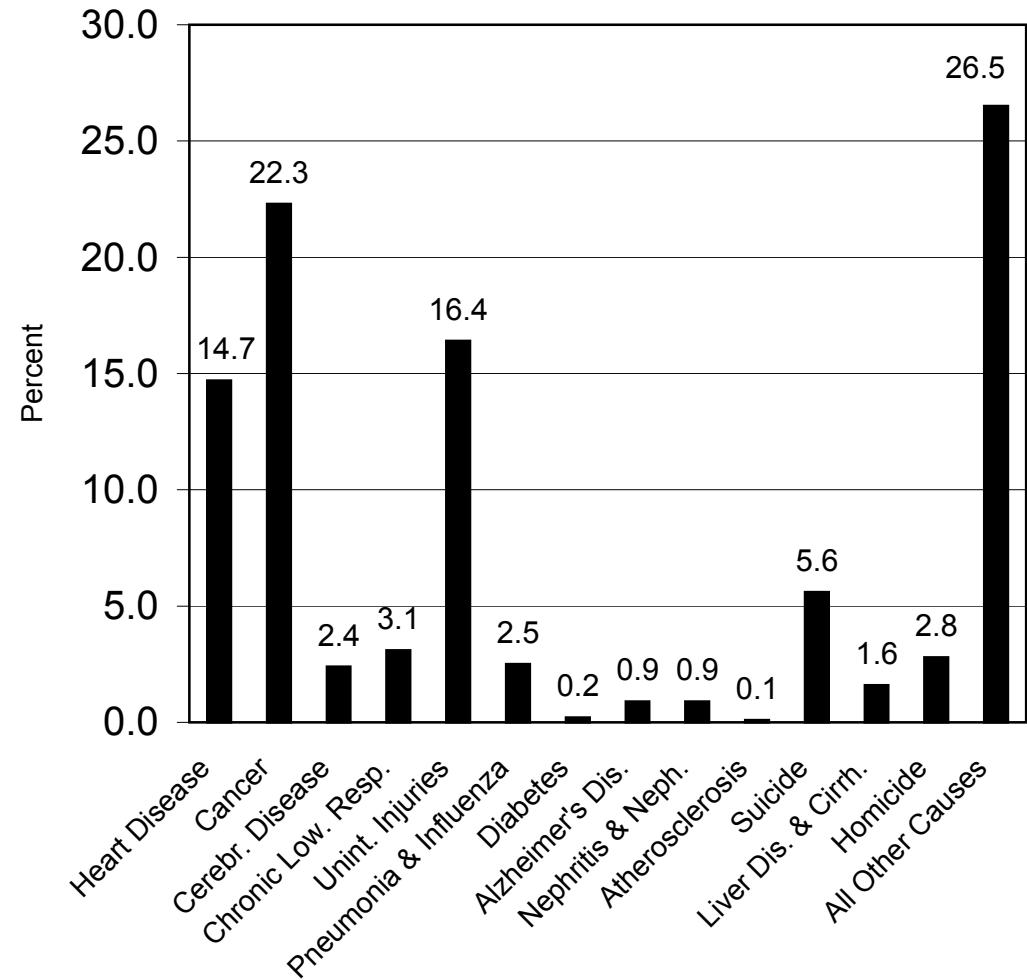
Total YPLL for Male and Female deaths will not add to the Total due to the different life expectancies used to calculate YPLL for males and females.

**Rate per 1,000 population

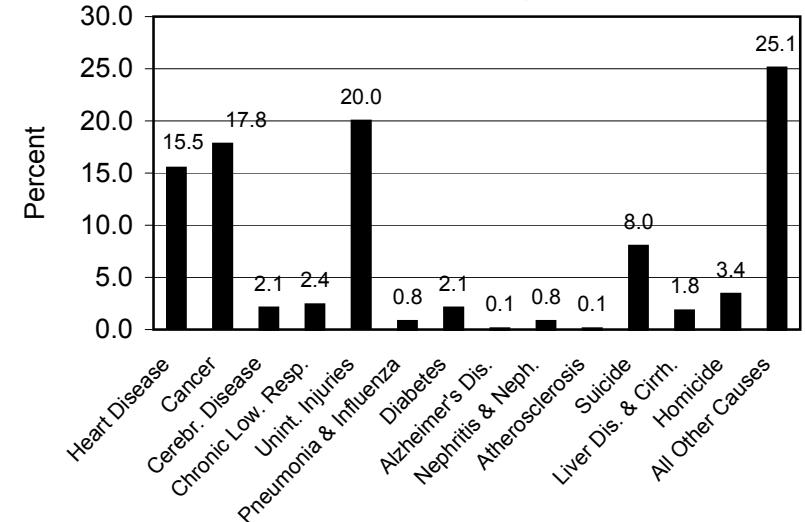
Residence data

Percent Years of Potential Life Lost

By Selected Causes of Death Kansas, 2002



By Selected Causes of Death
Kansas Males, 2002



By Selected Causes of Death
Kansas Females, 2002

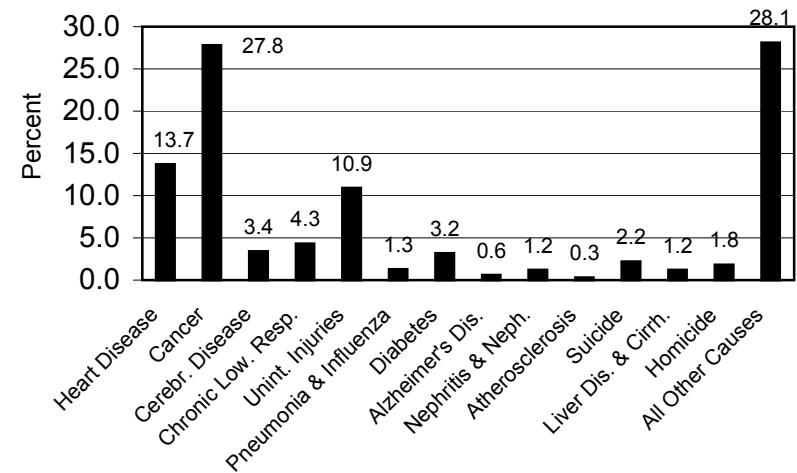


Figure 35

Table 55
Selected Causes Of Death By County Of Residence
Kansas, 2002

County of Residence	All Causes	Selected Causes of Death (ICD-10)								
		Tuber-culosis (A16-A19)	Residual Infect. & Para-sitic Dis. (A00-A15, A20-B99)	All Malignant Neoplasms (C00-C97)	Malignant Neoplasms of Digestive Organs (C15-C26)	Malignant Neoplasms of Respiratory and Intrathoracic Organs (C30-C39)	Malignant Neoplasm of Breast (C50)	Malignant Neoplasms of Genital Organs (C51-C63)	Malignant Neoplasms of Urinary Tract (C64-C68)	
Kansas.....	24,968	5	465	5,345	1,208	1,527	425	583	274	
Allen.....	168	0	2	35	3	8	3	6	2	
Anderson.....	109	0	5	25	8	8	1	2	1	
Atchison.....	208	0	5	42	6	17	2	3	4	
Barber.....	77	0	0	23	4	7	1	1	2	
Barton.....	294	0	1	54	20	12	0	4	3	
Bourbon.....	225	0	4	47	12	12	1	6	4	
Brown.....	149	0	0	24	4	8	2	5	0	
Butler.....	529	0	9	102	19	30	6	14	5	
Chase.....	41	0	2	11	4	4	0	0	0	
Chautauqua.....	87	0	1	26	5	4	2	5	1	
Cherokee.....	258	0	5	52	11	22	3	4	2	
Cheyenne.....	40	0	1	8	1	1	2	3	0	
Clark.....	38	0	0	5	0	3	1	0	1	
Clay.....	126	0	3	26	3	8	4	2	0	
Cloud.....	160	0	2	26	5	7	2	3	2	
Coffey.....	110	0	3	19	2	5	0	1	1	
Comanche.....	47	0	0	14	3	4	0	2	1	
Cowley.....	441	0	9	94	22	28	7	10	4	
Crawford.....	439	0	9	90	24	19	7	12	3	
Decatur.....	56	0	0	14	3	6	1	0	0	
Dickinson.....	287	0	3	50	6	16	3	8	3	
Doniphan.....	70	0	3	19	3	8	1	0	3	
Douglas.....	560	0	8	128	25	41	16	16	5	
Edwards.....	48	0	2	12	4	4	0	2	0	
Elk.....	51	0	0	13	2	4	1	2	0	
Ellis.....	263	0	6	53	9	16	3	10	5	
Ellsworth.....	94	0	2	21	11	4	1	1	0	
Finney.....	211	0	5	42	10	14	4	5	1	
Ford.....	282	0	2	62	10	22	6	5	6	
Franklin.....	238	0	5	56	14	15	5	9	2	
Geary.....	209	0	5	47	12	15	5	4	1	
Gove.....	38	0	3	6	1	2	0	2	0	
Graham.....	42	0	0	12	2	4	2	2	1	
Grant.....	52	0	1	11	2	6	0	1	0	
Gray.....	70	0	2	14	5	1	1	3	1	
Greeley.....	22	0	1	3	2	0	0	0	0	
Greenwood.....	136	0	5	23	4	7	2	4	1	
Hamilton.....	31	0	0	6	2	1	0	1	1	
Harper.....	106	0	3	24	6	10	2	3	1	
Harvey.....	347	0	6	89	22	22	5	8	7	
Haskell.....	27	0	0	5	1	2	1	0	0	
Hodgeman.....	31	0	0	4	3	0	0	0	1	
Jackson.....	131	0	1	32	4	9	7	4	1	
Jefferson.....	165	0	1	47	12	17	0	6	2	
Jewell.....	51	0	0	14	4	6	1	0	0	
Johnson.....	2,861	1	61	660	146	173	64	68	31	
Kearny.....	51	0	2	12	3	1	3	2	2	
Kingman.....	122	0	1	28	10	4	2	4	1	
Kiowa.....	25	0	0	6	3	1	1	0	0	
Labette.....	302	0	3	57	16	16	2	3	2	
Lane.....	39	0	0	10	3	3	0	0	1	
Leavenworth.....	524	0	5	114	30	26	6	11	10	
Lincoln.....	48	0	1	8	3	3	1	0	0	
Linn.....	106	0	0	20	4	8	2	3	0	
Logan.....	37	0	2	5	1	2	0	0	0	

Table 55
Selected Causes Of Death By County Of Residence
Kansas, 2002

County of Residence	All Causes	Selected Causes of Death (ICD-10)								
		Tuber-culosis (A16-A19)	Residual Infect. & Para-sitic Dis. (A00-A15, A20-B99)	All Malignant Neoplasms (C00-C97)	Malignant Neoplasms of Digestive Organs (C15-C26)	Malignant Neoplasms of Respiratory and Intrathoracic Organs (C30-C39)	Malignant Neoplasm of Breast (C50)	Malignant Neoplasms of Genital Organs (C51-C63)	Malignant Neoplasms of Urinary Tract (C64-C68)	
Lyon.....	290	0	2	54	12	21	2	4	1	
Marion.....	211	1	1	40	8	11	3	7	3	
Marshall.....	134	0	2	34	6	9	1	2	2	
McPherson.....	380	0	7	77	19	12	7	13	3	
Meade.....	48	0	0	12	4	3	1	0	0	
Miami.....	254	0	9	61	16	14	5	5	6	
Mitchell.....	91	0	1	15	3	5	2	2	0	
Montgomery.....	487	0	11	107	24	30	6	17	1	
Morris.....	73	0	1	17	2	3	0	4	1	
Morton.....	32	0	0	11	1	0	1	3	2	
Nemaha.....	136	0	0	22	4	5	3	3	3	
Neosho.....	193	0	6	39	9	12	1	4	1	
Ness.....	47	0	1	12	1	2	1	2	2	
Norton.....	64	0	0	14	2	5	0	2	1	
Osage.....	184	0	1	42	3	14	4	5	5	
Osborne.....	70	0	0	18	8	4	2	1	0	
Ottawa.....	77	0	2	22	4	7	0	2	1	
Pawnee.....	92	0	4	18	4	3	3	2	1	
Phillips.....	119	0	3	18	5	8	1	1	1	
Pottawatomie.....	161	0	3	34	11	7	2	4	2	
Pratt.....	121	0	3	20	4	7	2	2	1	
Rawlins.....	34	0	1	8	2	0	2	1	1	
Reno.....	701	0	8	139	36	37	7	18	10	
Republic.....	103	0	1	20	6	5	2	4	1	
Rice.....	123	0	2	29	7	12	2	2	0	
Riley.....	326	0	2	73	18	15	7	12	4	
Rooks.....	72	0	0	13	3	5	0	2	0	
Rush.....	66	0	1	14	5	5	0	0	1	
Russell.....	94	0	2	20	1	11	1	1	1	
Saline.....	467	0	3	82	12	23	10	10	4	
Scott.....	64	0	0	16	5	4	1	1	1	
Sedgwick.....	3,847	1	93	836	196	238	79	74	37	
Seward.....	126	0	2	23	4	4	5	1	1	
Shawnee.....	1,702	0	25	372	81	116	32	37	20	
Sheridan.....	35	0	3	5	2	1	0	0	1	
Sherman.....	79	0	2	10	2	5	0	2	1	
Smith.....	60	0	1	11	3	4	0	1	0	
Stafford.....	81	0	0	14	5	2	0	1	1	
Stanton.....	21	0	0	4	1	0	1	0	0	
Stevens.....	38	0	2	11	3	2	0	1	1	
Sumner.....	270	0	2	66	16	22	5	6	3	
Thomas.....	78	0	2	15	2	5	2	2	0	
Trego.....	46	0	0	10	0	1	0	4	2	
Wabaunsee.....	55	1	0	17	4	4	3	1	0	
Wallace.....	21	0	1	5	1	0	1	0	1	
Washington.....	96	0	3	23	6	5	0	3	1	
Wichita.....	29	0	0	6	0	3	0	2	0	
Wilson.....	134	0	4	22	3	11	2	2	2	
Woodson.....	69	0	2	11	3	4	0	0	0	
Wyandotte.....	1,588	1	46	333	77	105	24	40	18	

Table 55
Selected Causes Of Death By County Of Residence
Kansas, 2002

County of Residence	Selected Causes of Death (ICD-10)									
	Leukemia (C91-C95)	Other Malignant Neoplasms (C00-C14, C40-C49, C69-C90, C96-C97)	Diabetes mellitus (E10-E14)	Alzheimer's Disease (G30)	Major Cardio-vascular Diseases (I00-I78)	Diseases of Heart (I00-I09, I11, I13, I20-I51)	Rheumatic Fever and Rheumatic Heart Diseases (I00-I09)	Hypertensive Heart Disease w, w/out Renal Disease (I11, I13)	Ischemic Heart Diseases (I20-I25)	Other Heart Diseases (I26-I51)
Kansas.....	220	1,108	763	752	9,271	6,640	37	141	4,165	2,297
Allen.....	4	9	6	3	65	53	0	1	34	18
Anderson.....	3	2	3	3	38	29	0	0	23	6
Atchison.....	1	9	6	7	73	54	0	1	31	22
Barber.....	2	6	0	2	22	15	0	0	14	1
Barton.....	4	11	12	8	116	86	1	1	48	36
Bourbon.....	5	7	2	6	91	70	1	0	42	27
Brown.....	0	5	4	4	62	45	0	2	21	22
Butler.....	1	27	18	12	208	136	1	4	78	53
Chase.....	1	2	1	1	12	10	0	0	7	3
Chautauqua.....	4	5	0	3	35	24	0	0	19	5
Cherokee.....	1	9	5	3	111	86	0	3	66	17
Cheyenne.....	0	1	1	3	10	9	0	0	8	1
Clark.....	0	0	2	3	18	10	0	0	7	3
Clay.....	2	7	6	3	40	29	0	0	16	13
Cloud.....	2	5	6	0	74	52	0	1	28	23
Coffey.....	3	7	1	3	48	31	0	0	18	13
Comanche.....	1	3	1	3	11	11	0	0	5	6
Cowley.....	4	19	14	12	151	115	0	1	63	51
Crawford.....	4	21	13	14	194	155	1	0	117	37
Decatur.....	0	4	5	1	19	17	0	0	12	5
Dickinson.....	2	12	4	11	125	85	2	3	56	24
Doniphan.....	0	4	1	0	26	19	0	1	12	6
Douglas.....	3	22	30	20	193	132	0	3	76	53
Edwards.....	0	2	2	2	16	12	0	0	6	6
Elk.....	0	4	0	6	17	11	0	0	8	3
Ellis.....	3	7	8	11	99	71	0	0	46	25
Ellsworth.....	1	3	2	0	29	24	0	1	17	6
Finney.....	0	8	10	3	61	52	0	1	38	13
Ford.....	2	11	7	9	99	67	0	3	49	15
Franklin.....	1	10	8	4	90	62	0	1	39	22
Geary.....	0	10	8	9	75	50	1	1	30	18
Gove.....	1	0	1	1	14	13	0	0	7	6
Graham.....	0	1	0	0	17	11	0	1	8	2
Grant.....	0	2	2	0	21	19	0	1	12	6
Gray.....	2	1	2	5	21	16	0	0	10	6
Greeley.....	1	0	2	1	4	4	0	0	4	0
Greenwood.....	1	4	4	4	56	45	0	0	32	13
Hamilton.....	1	0	2	2	13	10	0	0	8	2
Harper.....	0	2	1	3	46	37	1	1	23	12
Harvey.....	4	21	10	8	134	94	0	1	56	37
Haskell.....	0	1	2	0	9	5	0	1	4	0
Hodgeman.....	0	0	0	1	9	7	0	0	1	6
Jackson.....	0	7	5	5	51	36	0	2	16	18
Jefferson.....	1	9	4	3	55	44	0	1	28	15
Jewell.....	1	2	2	0	19	14	0	0	8	6
Johnson.....	26	152	69	108	1124	647	6	15	397	229
Kearny.....	0	1	4	2	18	15	0	1	12	2
Kingman.....	0	7	8	2	54	40	1	1	28	10
Kiowa.....	0	1	2	4	7	6	0	0	4	2
Labette.....	3	15	5	9	133	100	0	2	70	28
Lane.....	1	2	1	1	15	10	0	0	6	4
Leavenworth.....	5	26	14	21	185	156	1	4	108	43
Lincoln.....	0	1	0	1	25	25	0	0	23	2
Linn.....	1	2	5	3	46	35	0	0	22	13
Logan.....	1	1	1	1	16	13	0	0	11	2

Table 55
Selected Causes Of Death By County Of Residence
Kansas, 2002

County of Residence	Selected Causes of Death (ICD-10)									
	Leukemia (C91-C95)	Other Malignant Neoplasms (C00-C14, C40-C49, C69-C90, C96-C97)	Diabetes mellitus (E10-E14)	Alzheimer's Disease (G30)	Major Cardio-vascular Diseases (I00-I78)	Diseases of Heart (I00-I09, I11, I13, I20-I51)	Rheumatic Fever and Rheumatic Heart Diseases (I00-I09)	Hypertensive Heart Disease w, w/out Renal Disease (I11, I13)	Ischemic Heart Diseases (I20-I25)	Other Heart Diseases (I26-I51)
Lyon.....	3	11	11	13	105	80	1	0	41	38
Marion.....	0	8	2	6	80	60	0	1	33	26
Marshall.....	1	13	2	1	53	42	0	0	24	18
McPherson.....	3	20	11	17	159	106	0	0	79	27
Meade.....	2	2	4	2	22	20	0	0	14	6
Miami.....	2	13	2	8	86	69	1	0	54	14
Mitchell.....	0	3	5	1	37	23	0	2	15	6
Montgomery.....	4	25	21	17	174	123	0	3	89	31
Morris.....	0	7	3	2	31	24	0	1	14	9
Morton.....	0	4	2	0	9	5	0	0	4	1
Nemaha.....	2	2	5	16	50	34	0	2	18	14
Neosho.....	3	9	7	7	69	47	0	0	30	17
Ness.....	2	2	1	0	21	18	0	0	12	6
Norton.....	0	4	2	6	24	19	0	1	10	8
Osage.....	1	10	4	2	76	56	0	0	38	18
Osborne.....	0	3	5	0	34	29	0	0	25	4
Ottawa.....	2	6	2	2	26	16	0	0	14	2
Pawnee.....	2	3	8	5	25	17	0	0	11	6
Phillips.....	0	2	4	5	50	34	0	1	22	11
Pottawatomie.....	1	7	3	5	57	36	0	1	23	12
Pratt.....	1	3	2	4	40	33	0	0	17	16
Rawlins.....	0	2	7	0	10	6	0	0	6	0
Reno.....	3	28	16	35	251	186	1	0	106	79
Republic.....	0	2	5	2	33	27	0	1	13	13
Rice.....	0	6	7	3	44	32	0	0	19	13
Riley.....	2	15	7	6	118	88	1	2	60	25
Rooks.....	1	2	1	2	30	22	0	2	14	6
Rush.....	0	3	1	1	26	20	0	0	18	2
Russell.....	1	4	4	1	40	32	1	1	27	3
Saline.....	5	18	20	14	182	125	2	1	91	31
Scott.....	0	4	1	8	23	16	0	0	9	7
Sedgwick.....	34	178	114	83	1327	1003	3	29	572	399
Seward.....	2	6	9	2	43	29	1	2	18	8
Shawnee.....	20	66	45	44	639	480	3	20	301	156
Sheridan.....	0	1	1	2	9	6	0	0	4	2
Sherman.....	0	0	3	4	28	23	0	0	18	5
Smith.....	1	2	0	0	17	12	1	1	5	5
Stafford.....	0	5	4	1	38	28	0	1	19	8
Stanton.....	0	2	0	0	11	9	0	0	4	5
Stevens.....	0	4	2	1	11	8	0	0	5	3
Sumner.....	4	10	14	6	101	56	0	0	45	11
Thomas.....	0	4	2	5	30	23	1	0	9	13
Trego.....	1	2	1	1	23	19	0	3	6	10
Wabaunsee.....	0	5	2	3	16	10	0	0	7	3
Wallace.....	1	1	2	0	8	6	0	0	6	0
Washington.....	1	7	0	6	34	27	0	1	19	7
Wichita.....	1	0	0	0	8	5	0	0	4	1
Wilson.....	1	1	7	1	52	38	0	0	29	9
Woodson.....	0	4	0	3	29	23	1	2	12	8
Wyandotte.....	10	59	50	45	542	366	4	4	200	158

Table 55
Selected Causes Of Death By County Of Residence
Kansas, 2002

County of Residence	Selected Causes of Death (ICD-10)								
	Hypertension and Hypertensive Renal Disease (I10, I12)	Cerebro-vascular Diseases (I60-I69)	Athero-sclerosis (I70)	Other Diseases of Arteries, Arterioles and Capillaries (I71-I78)	Pneumonia and Influenza (J10-J18)	Chronic Lower Respiratory Diseases (J40-J47)	Peptic Ulcer (K25-K28)	Chronic Liver Disease and Cirrhosis (K70, K73-K74)	Nephritis, Nephrotic Syndr. and Nephrosis (N00-N07, N17-N19, N25-N27)
Kansas.....	191	1,840	340	260	690	1,366	45	182	512
Allen.....	0	11	1	0	7	12	1	1	2
Anderson.....	1	7	0	1	4	5	0	2	4
Atchison.....	1	15	1	2	7	14	1	1	5
Barber.....	1	5	0	1	3	5	0	0	5
Barton.....	2	22	2	4	14	19	0	1	4
Bourbon.....	0	20	0	1	6	14	0	2	4
Brown.....	0	16	0	1	3	2	0	2	2
Butler.....	3	56	10	3	19	32	2	7	4
Chase.....	0	1	0	1	2	2	0	0	1
Chautauqua.....	0	9	0	2	1	9	0	0	3
Cherokee.....	2	23	0	0	12	28	1	2	2
Cheyenne.....	0	1	0	0	2	3	0	0	0
Clark.....	0	8	0	0	1	2	0	0	1
Clay.....	2	8	0	1	5	6	1	0	2
Cloud.....	3	18	0	1	5	6	0	0	3
Coffey.....	1	13	0	3	1	6	0	1	6
Comanche.....	0	0	0	0	1	4	0	0	0
Cowley.....	5	22	2	7	12	34	1	3	7
Crawford.....	0	31	5	3	14	20	0	4	9
Decatur.....	0	1	0	1	0	1	0	0	1
Dickinson.....	4	34	0	2	13	14	0	2	4
Doniphan.....	0	6	0	1	3	3	0	0	0
Douglas.....	8	37	6	10	6	29	2	2	7
Edwards.....	0	4	0	0	0	0	0	0	0
Elk.....	0	6	0	0	1	7	1	0	1
Ellis.....	4	18	2	4	9	18	0	3	8
Ellsworth.....	0	4	0	1	11	6	0	2	1
Finney.....	1	6	0	2	7	6	2	1	2
Ford.....	2	26	1	3	12	19	2	3	5
Franklin.....	1	21	1	5	4	19	0	1	4
Geary.....	2	19	2	2	6	7	0	1	5
Gove.....	0	1	0	0	1	1	0	0	1
Graham.....	1	2	1	2	2	1	0	0	0
Grant.....	0	1	0	1	0	0	0	0	0
Gray.....	0	4	0	1	2	5	0	0	1
Greeley.....	0	0	0	0	1	2	0	0	0
Greenwood.....	0	9	1	1	9	10	0	1	4
Hamilton.....	0	2	0	1	2	2	0	0	0
Harper.....	2	5	1	1	3	7	0	0	0
Harvey.....	4	31	1	4	11	9	1	1	8
Haskell.....	2	1	0	1	1	3	0	1	1
Hodgeman.....	0	2	0	0	1	1	0	0	1
Jackson.....	0	12	2	1	3	6	1	0	3
Jefferson.....	0	8	0	3	2	7	0	0	4
Jewell.....	0	4	1	0	2	1	0	0	3
Johnson.....	29	237	178	33	56	139	4	15	52
Kearny.....	0	3	0	0	0	2	0	0	1
Kingman.....	0	12	0	2	2	4	0	0	4
Kiowa.....	0	1	0	0	0	2	1	0	0
Labette.....	4	20	7	2	13	14	1	1	7
Lane.....	0	3	1	1	0	2	0	0	1
Leavenworth.....	4	19	2	4	21	30	0	4	19
Lincoln.....	0	0	0	0	2	4	0	0	2
Linn.....	0	9	1	1	2	5	0	1	2
Logan.....	1	2	0	0	1	3	0	0	1

Table 55
Selected Causes Of Death By County Of Residence
Kansas, 2002

County of Residence	Selected Causes of Death (ICD-10)								
	Hypertension and Hypertensive Renal Disease (I10, I12)	Cerebro-vascular Diseases (I60-I69)	Athero-sclerosis (I70)	Other Diseases of Arteries, Arterioles and Capillaries (I71-I78)	Pneumonia and Influenza (J10-J18)	Chronic Lower Respiratory Diseases (J40-J47)	Peptic Ulcer (K25-K28)	Chronic Liver Disease and Cirrhosis (K70, K73-K74)	Nephritis, Nephrotic Syndr. and Nephrosis (N00-N07, N17-N19, N25-N27)
Lyon.....	1	21	0	3	17	16	0	1	6
Marion.....	2	17	0	1	5	7	0	0	3
Marshall.....	0	10	0	1	4	4	1	0	0
McPherson.....	1	46	0	6	10	13	2	1	5
Meade.....	0	0	2	0	1	1	0	0	1
Miami.....	2	12	2	1	4	11	0	4	1
Mitchell.....	0	9	3	2	3	4	0	0	3
Montgomery.....	5	34	6	6	13	22	1	3	11
Morris.....	1	3	0	3	0	3	1	0	1
Morton.....	1	2	1	0	0	3	0	0	1
Nemaha.....	2	13	1	0	9	3	0	1	1
Neosho.....	3	18	0	1	8	10	1	1	5
Ness.....	0	2	1	0	0	3	0	2	1
Norton.....	0	5	0	0	1	1	0	0	0
Osage.....	1	18	0	1	4	12	0	1	4
Osborne.....	1	4	0	0	0	2	0	1	2
Ottawa.....	0	9	0	1	2	3	1	1	0
Pawnee.....	2	6	0	0	6	3	0	1	1
Phillips.....	2	12	1	1	3	2	0	1	1
Pottawatomie.....	0	17	2	2	6	6	0	2	3
Pratt.....	2	4	0	1	5	3	0	1	3
Rawlins.....	1	1	1	1	1	0	0	0	1
Reno.....	3	52	2	8	20	56	0	3	20
Republic.....	0	5	0	1	8	5	0	0	2
Rice.....	0	9	1	2	3	9	0	1	4
Riley.....	3	20	1	6	17	26	2	4	3
Rooks.....	0	5	1	2	4	4	0	0	2
Rush.....	1	4	1	0	3	7	0	1	0
Russell.....	0	6	0	2	2	6	0	0	4
Saline.....	4	41	4	8	13	35	1	3	3
Scott.....	0	5	0	2	1	8	0	0	0
Sedgwick.....	31	244	18	31	87	243	7	34	84
Seward.....	1	10	0	3	6	8	0	2	2
Shawnee.....	8	116	14	21	38	92	3	22	31
Sheridan.....	0	3	0	0	1	3	1	1	0
Sherman.....	0	3	0	2	6	6	0	1	2
Smith.....	0	3	1	1	4	3	0	1	0
Stafford.....	1	7	2	0	3	1	0	0	4
Stanton.....	0	2	0	0	0	1	0	0	0
Stevens.....	0	2	0	1	3	0	0	0	0
Sumner.....	0	36	8	1	6	10	0	3	11
Thomas.....	0	6	0	1	2	4	1	0	4
Trego.....	0	3	0	1	0	3	0	0	0
Wabaunsee.....	0	3	0	3	1	3	0	0	1
Wallace.....	0	2	0	0	0	1	0	0	1
Washington.....	0	6	0	1	2	2	0	0	0
Wichita.....	0	3	0	0	4	2	0	0	0
Wilson.....	1	12	0	1	3	7	0	2	2
Woodson.....	0	5	1	0	0	5	0	0	4
Wyandotte.....	21	108	37	10	23	72	1	18	57

Table 55
Selected Causes Of Death By County Of Residence
Kansas, 2002

County of Residence	Selected Causes of Death (ICD-10)								
	Pregnancy, Childbirth and the Puerperium (O00-O99)	Congenital Anomalies (Q00-Q99)	Cert. Cond. Originating in the Perinatal Period (P00-P96)	Symptoms, Signs and Abnormal Findings (R00-R99)	Motor Vehicle Accidents *	All Other Accidents and Adverse Effects **	Suicide (X60-X84, Y87.0)	Homicide (X85-Y09, Y87.1)	All Other Causes
Kansas.....	3	116	140	463	547	578	346	126	3,253
Allen.....	0	0	0	2	2	3	6	0	21
Anderson.....	0	0	0	2	3	1	1	0	13
Atchison.....	0	0	0	4	4	5	4	0	30
Barber.....	0	0	0	0	3	3	6	0	5
Barton.....	0	0	3	13	8	6	1	2	32
Bourbon.....	0	1	0	5	5	9	2	1	26
Brown.....	0	1	2	3	3	9	1	1	26
Butler.....	0	3	4	5	8	15	6	5	70
Chase.....	0	1	0	0	1	0	1	0	6
Chautauqua.....	0	0	0	1	2	1	0	0	5
Cherokee.....	0	0	0	2	7	1	3	0	24
Cheyenne.....	0	0	0	3	3	0	0	0	6
Clark.....	0	0	0	0	1	0	1	0	4
Clay.....	0	2	0	5	3	3	3	0	18
Cloud.....	0	0	1	2	2	4	2	0	27
Coffey.....	0	0	0	0	1	4	3	0	14
Comanche.....	0	0	0	0	0	0	1	0	12
Cowley.....	0	1	2	7	12	5	8	3	66
Crawford.....	0	2	2	6	7	11	5	2	37
Decatur.....	0	0	0	4	0	1	1	0	9
Dickinson.....	0	0	0	5	9	5	4	0	38
Doniphan.....	0	0	0	2	3	3	0	0	7
Douglas.....	1	4	3	10	7	22	9	2	77
Edwards.....	0	1	0	2	3	0	1	0	7
Elk.....	0	0	0	0	0	2	0	0	3
Ellis.....	0	2	0	1	5	2	2	0	36
Ellsworth.....	0	1	0	1	4	3	1	0	10
Finney.....	0	5	1	5	14	7	1	3	36
Ford.....	0	1	3	3	8	5	3	2	37
Franklin.....	0	1	1	3	3	5	3	2	29
Geary.....	0	0	3	4	2	4	1	2	30
Gove.....	0	0	0	1	0	1	0	0	8
Graham.....	0	0	0	1	0	2	0	0	7
Grant.....	0	0	0	0	2	3	3	0	9
Gray.....	0	1	0	1	6	1	0	0	9
Greeley.....	0	0	0	0	0	1	0	0	7
Greenwood.....	0	1	0	2	0	6	2	1	8
Hamilton.....	0	0	0	0	0	0	0	0	4
Harper.....	0	0	0	0	5	1	0	0	13
Harvey.....	0	3	0	1	7	2	3	0	54
Haskell.....	0	0	0	1	1	1	0	0	2
Hodgeman.....	0	1	0	5	3	0	0	0	5
Jackson.....	0	0	0	3	0	3	0	0	18
Jefferson.....	0	0	0	3	10	7	3	0	19
Jewell.....	0	0	0	5	1	1	1	0	2
Johnson.....	1	15	12	34	41	51	53	14	351
Kearny.....	0	0	1	3	1	1	0	0	4
Kingman.....	0	0	0	2	6	3	2	0	6
Kiowa.....	0	0	0	0	2	0	0	0	1
Labette.....	0	2	0	3	9	7	0	0	38
Lane.....	0	1	0	0	1	1	0	0	6
Leavenworth.....	1	6	2	3	5	16	13	3	62
Lincoln.....	0	0	1	0	2	1	0	0	1
Linn.....	0	0	0	0	8	4	1	0	9
Logan.....	0	0	0	0	2	1	0	0	4

Table 55
Selected Causes Of Death By County Of Residence
Kansas, 2002

County of Residence	Selected Causes of Death (ICD-10)								
	Pregnancy, Childbirth and the Puerperium (O00-O99)	Congenital Anomalies (Q00-Q99)	Cert. Cond. Originating in the Perinatal Period (P00-P96)	Symptoms, Signs and Abnormal Findings (R00-R99)	Motor Vehicle Accidents *	All Other Accidents and Adverse Effects **	Suicide (X60-X84, Y87.0)	Homicide (X85-Y09, Y87.1)	All Other Causes
Lyon.....	0	2	1	9	7	7	3	2	34
Marion.....	0	1	1	9	11	4	2	0	38
Marshall.....	0	0	0	10	5	1	0	0	17
McPherson.....	0	3	0	3	9	8	6	0	49
Meade.....	0	1	0	1	0	1	1	0	1
Miami.....	0	0	1	4	9	5	4	1	44
Mitchell.....	0	0	0	1	1	0	4	0	16
Montgomery.....	0	0	4	7	10	14	4	0	68
Morris.....	0	1	0	0	2	2	0	0	9
Morton.....	0	0	0	0	0	1	0	0	5
Nemaha.....	0	0	0	4	3	4	2	0	16
Neosho.....	0	1	2	1	4	5	2	0	25
Ness.....	0	0	0	0	1	1	0	0	4
Norton.....	0	0	0	7	1	1	0	0	7
Osage.....	0	0	1	2	7	6	5	1	16
Osborne.....	0	0	0	1	1	0	1	0	5
Ottawa.....	0	0	0	0	4	0	1	0	11
Pawnee.....	0	1	0	3	2	0	4	0	11
Phillips.....	0	0	0	13	2	3	0	0	14
Pottawatomie.....	0	1	1	6	6	2	6	0	20
Pratt.....	0	1	2	2	2	1	4	0	28
Rawlins.....	0	0	0	0	0	0	0	0	6
Reno.....	0	3	3	27	9	11	12	0	88
Republic.....	0	0	0	7	2	2	1	0	15
Rice.....	0	0	0	0	5	4	0	0	12
Riley.....	0	2	2	3	3	6	7	0	45
Rooks.....	0	1	0	1	2	2	0	0	10
Rush.....	0	0	0	0	2	3	0	0	7
Russell.....	0	0	1	0	1	3	0	0	10
Saline.....	0	4	1	13	10	14	8	0	61
Scott.....	0	1	0	1	0	2	0	0	3
Sedgwick.....	0	24	46	43	91	101	49	28	556
Seward.....	0	1	3	0	6	6	2	0	11
Shawnee.....	0	5	7	20	20	46	25	13	255
Sheridan.....	0	0	0	0	0	1	1	0	7
Sherman.....	0	0	0	1	4	1	0	0	11
Smith.....	0	0	0	7	3	1	0	0	12
Stafford.....	0	1	0	2	2	2	2	0	7
Stanton.....	0	1	0	0	2	0	1	0	1
Stevens.....	0	0	0	0	4	0	0	0	4
Sumner.....	0	0	1	1	13	1	2	0	33
Thomas.....	0	0	0	1	2	1	2	0	7
Trego.....	0	1	0	0	0	1	1	0	5
Wabaunsee.....	0	0	0	0	2	1	2	0	6
Wallace.....	0	0	0	1	0	1	0	0	1
Washington.....	0	0	0	7	1	1	1	1	15
Wichita.....	0	0	1	0	0	0	0	0	8
Wilson.....	0	0	0	3	5	8	0	0	18
Woodson.....	0	0	0	1	3	1	1	0	9
Wyandotte.....	0	4	21	73	23	39	19	37	184

* Motor-Vehicle ICD-10 Codes: V02-V04, V09.0, V09.2, V12-V14, V19.0-V19.2, V19.4-V19.6, V20-V79, V80.3-V80.5, V81.0-V81.1, V82.0-V82.1, V83-V86, V87.0-V87.8, V88.0-V88.8, V89.0, V89.2

** All Other Accidents: V01, V05-V06, V09.1, V09.3-V09.9, V10-V11, V15-V18, V19.3, V19.8-V19.9, V80.0-V80.2, V80.6-V80.9, V81.2-V81.9, V82.2-V82.9, V87.9, V88.9, V89.1, V89.3, V89.9, V90-X59, Y40-Y86, Y88

Table 56
Deaths from 39 Selected Causes
By Age-Group And Sex Of Decedent
Kansas, 2002

Table 56
 Deaths from 39 Selected Causes
 By Age-Group And Sex Of Decedent
 Kansas, 2002

Cause of Death and Sex of Decedent (ICD-10 Code)	Total	Age-Group											
		Under 1	1-4	5-14	15-24	25-34	35-44	45-54	55-64	65-74	75-84	85 & Over	N.S.
Cancer of Urinary Tract (C64-C68).....	274	0	1	0	0	0	2	26	29	64	84	68	0
Male.....	179	0	0	0	0	0	2	20	20	45	54	38	0
Female.....	95	0	1	0	0	0	0	6	9	19	30	30	0
Non-Hodgkin's Lymphoma (C82-C85).....	223	0	2	0	0	0	3	17	33	48	90	30	0
Male.....	115	0	2	0	0	0	2	6	21	32	41	11	0
Female.....	108	0	0	0	0	0	1	11	12	16	49	19	0
Leukemia (C91-C95).....	220	1	2	3	4	4	9	12	32	36	63	54	0
Male.....	121	1	1	1	2	3	7	7	19	27	33	20	0
Female.....	99	0	1	2	2	1	2	5	13	9	30	34	0
Other Malignant Neoplasms*	1,234	0	2	3	12	13	49	121	196	261	376	201	0
Male.....	692	0	1	2	9	7	30	79	126	150	201	87	0
Female.....	542	0	1	1	3	6	19	42	70	111	175	114	0
Diabetes Mellitus (E10-E14).....	763	0	0	0	1	4	23	47	95	157	236	200	0
Male.....	327	0	0	0	0	1	17	26	53	72	97	61	0
Female.....	436	0	0	0	1	3	6	21	42	85	139	139	0
Alzheimer's Disease (G30).....	752	0	0	0	0	0	0	0	5	40	250	457	0
Male.....	230	0	0	0	0	0	0	0	1	24	98	107	0
Female.....	522	0	0	0	0	0	0	0	4	16	152	350	0
Hypertensive Heart Disease (I11, I13).....	141	0	0	0	0	1	4	7	11	14	29	75	0
Male.....	55	0	0	0	0	1	2	5	8	6	12	21	0
Female.....	86	0	0	0	0	0	2	2	3	8	17	54	0
Ischemic Heart Disease (I20-I25).....	4,165	0	0	0	0	8	56	240	333	673	1,308	1,547	0
Male.....	2,184	0	0	0	0	6	42	185	241	448	719	543	0
Female.....	1,981	0	0	0	0	2	14	55	92	225	589	1,004	0
Other Heart Disease (I00-I09, I26-I51).....	2,333	0	2	2	4	6	40	89	156	274	628	1,132	1
Male.....	934	0	2	0	1	3	22	58	98	146	291	313	1
Female.....	1,399	0	0	2	3	3	18	31	58	128	337	819	0
Hypertensive Renal Disease (I10, I12).....	191	0	0	0	0	0	0	1	11	17	49	113	0
Male.....	76	0	0	0	0	0	0	0	9	8	22	37	0
Female.....	115	0	0	0	0	0	0	1	2	9	27	76	0

Table 56
Deaths from 39 Selected Causes
By Age-Group And Sex Of Decedent
Kansas, 2002

Table 56
 Deaths from 39 Selected Causes
 By Age-Group And Sex Of Decedent
 Kansas, 2002

Cause of Death and Sex of Decedent (ICD-10 Code)	Total	Age-Group											
		Under 1	1-4	5-14	15-24	25-34	35-44	45-54	55-64	65-74	75-84	85 & Over	N.S.
Congenital Anomalies (Q00-Q99).....	116	63	7	4	3	5	4	5	11	5	2	7	0
Male.....	57	32	3	4	2	1	2	2	4	1	1	5	0
Female.....	59	31	4	0	1	4	2	3	7	4	1	2	0
Sudden Infant Death Syndrome (R95).....	46	46	0	0	0	0	0	0	0	0	0	0	0
Male.....	26	26	0	0	0	0	0	0	0	0	0	0	0
Female.....	20	20	0	0	0	0	0	0	0	0	0	0	0
Symptoms and Abnormal Findings (R00-R94, R96-R99).....	416	5	3	1	3	8	16	21	51	46	86	176	1
Male.....	181	3	0	1	3	6	12	15	33	27	39	42	1
Female.....	235	2	3	0	0	2	4	6	18	19	47	134	0
All Other Diseases**.....	3,655	14	11	15	27	34	142	205	250	462	1,091	1,404	0
Male.....	1,538	8	7	8	13	19	84	122	132	229	489	427	0
Female.....	2,114	6	4	7	14	15	58	83	118	233	602	974	0
Motor Vehicle Accidents***.....	547	1	9	19	164	71	75	74	47	30	42	15	0
Male.....	371	1	5	9	115	56	48	48	38	18	28	5	0
Female.....	176	0	4	10	49	15	27	26	9	12	14	10	0
All Other Accidents and Adverse Effects****.....	578	11	9	13	32	25	89	85	31	56	104	123	0
Male.....	341	7	8	10	31	23	59	52	20	37	55	39	0
Female.....	237	4	1	3	1	2	30	33	11	19	49	84	0
Suicide X60-X84, Y87.0.....	346	0	0	3	62	45	72	70	34	21	25	14	0
Male.....	286	0	0	2	53	37	56	62	27	16	23	10	0
Female.....	60	0	0	1	9	8	16	8	7	5	2	4	0
Homicide X85-Y09, Y87.1.....	126	2	6	2	36	29	21	17	3	6	2	2	0
Male.....	88	0	3	1	26	26	13	11	3	4	1	0	0
Female.....	38	2	3	1	10	3	8	6	0	2	1	2	0
All Other External Causes Y10-Y36, Y87.2, Y89.....	32	0	2	1	5	3	8	7	3	1	1	1	0
Male.....	19	0	0	1	1	2	5	5	3	1	1	0	0
Female.....	10	0	2	0	1	1	3	2	0	0	0	1	0

* C00-C15, C17, C22-C24, C26-C32, C37-C49, C51-C52, C57-C60, C62-C63, C69-C81, C88, C90, C96-C97

**A00-A09, A20-A49, A54-B19, B25-B99, D00-E07, E15-G25, G31-H93, I80-J06, J20-J39, J60-K22, K29-K66, K71-K72, K75-M99, N10-N15, N20-N23, N28-N98

***V02-V04, V09.0, V09.2, V12-V14, V19.0-V19.2, V19.4-V19.6, V20-V79, V80.3-V80.5, V81.0-V81.1, V82.0-V82.1, V83-V86, V87.0-V87.8, V88.0-V88.8, V89.0, V89.2

****V01, V05-V06, V09.1, V09.3-V09.9, V10-V11, V15-V18, V19.3, V19.8-V19.9, V80.0-V80.2, V80.6-V80.9, V81.2-V81.9, V82.2-V82.9, V87.9, V88.9, V89.1,

V89.3, V89.9, V90-X59, Y40-Y86, Y88

Residence data

Marriages & Marriage Dissolutions

Marriages

In 2002, 19,783 marriages occurred in Kansas, a decrease of 3.3 percent from the 2001 total of 20,457 marriages. ([Table 57](#))

The greatest number of marriages (3,904) occurred in Sedgwick county, but Geary county had the highest marriage rate of 20.0 marriages per 1,000 population. Wallace county had the fewest marriages (7) while Smith and Wallace had the lowest marriage rate (4.1). ([Table 57](#), [Figure 36](#))

The Kansas marriage rate in 2002 was 7.3 marriages per 1,000 population, which was 16.1 percent lower than the 1992 rate of 8.7. The 2002 rate was 6.4 percent lower than the estimated U.S. rate of 7.8 marriages per 1,000 population. ([Table 1](#), [Figure 38](#))

More wedding ceremonies were performed in June (13.9 percent) than any other month in 2002, with August and May being the second and third most popular months. ([Figure 40](#))

First-time marriages for both partners made up more than half of the marriages in Kansas for the fourth consecutive year. In 2002, 52.7 percent of all marriages involved first-time partners. ([Table 59](#), [Figure 2](#))

Kansas couples are delaying marriage. In 1992, 11.9 percent of the brides and 4.5 percent of the grooms were under 20 years of age. However, in 2002, 10.0 percent of the brides and 3.7 percent of the grooms were under 20. ([Table 60](#))

The average age of all brides in 2002 was 29.7 years and that of grooms was 31.9 years. Women marrying for the first time averaged 24.6 years while first time grooms averaged 26.7 years. Of those persons who remarried during 2002, women were, on the average, 39.3 years old and men were 42.1 years of age. ([Figure 41](#))

Marriage and Marriage Dissolutions (Cont.)

Marriage Dissolutions

In 2002, 9,645 marriage dissolutions (9,310 divorces and 335 annulments) occurred in Kansas, a decrease of 2.4 percent from the 2001 total of 9,885. ([Table 58](#) and [Table 62](#))

The greatest number of marriage dissolutions (2,762) occurred in Sedgwick county, but Coffey county had the highest marriage dissolution rate (11.0) per 1,000 population. Greeley county had no marriage dissolutions in 2002. Gove county had 1 and also had the lowest dissolution rate of 0.3 per 1,000 population. ([Table 58](#), [Figure 37](#))

The Kansas marriage dissolution rate in 2002 was 3.6 marriage dissolutions per 1,000 population, which was 26.5 percent lower than the 1992 rate of 4.9. The 2002 rate is the lowest since 1970. ([Table 1](#), [Figure 39](#))

Kansas has generally reported a higher marriage dissolution rate than the U.S. for most years since 1951. However, Kansas' rate in 1995 (4.3) was lower than the U.S. rate (4.4) for the first time since 1951. The Kansas rate in 2002 (3.6) was 10.0 percent lower than the U.S. rate (4.0). ([Figure 39](#))

The ratios of marriages to divorces for Kansas and the U.S. were both roughly 2 to 1, with both Kansas and the U.S. at 2.0:1. ([Table 57](#) and [Table 58](#))

The most common age-group of wives involved in marriage dissolutions in 2002 was 25-29, while for husbands it was the 30-34 age-group. For couples of the same age-group, the most common age-group was 25-29. ([Table 61](#))

The average age at marriage dissolution in 2002 was 36.1 years for wives and 38.5 years for husbands, as compared to 33.8 years for wives and 36.1 years for husbands in 1992. ([Figure 42](#))

In 2002, 41.8 percent of marriages ending in divorce or annulment lasted four years or less. ([Table 62](#))

There were 8,917 minor children affected as a result of marriage dissolutions in 2002. At least one minor child was reported in over half (51.6 percent) of the marriage dissolutions. ([Table 63](#), [Figure 43](#))

Table 57
 Marriages By Number And Rate*
 By County Of Marriage And By Peer Group**
 Kansas, 1998-2002

County of Marriage	Year										5-Year Rate	
	1998		1999		2000		2001		2002			
	Number	Rate										
Kansas.....	20,403	7.8	20,905	7.9	20,426	7.6	20,457	7.6	19,783	7.3	7.6	
Allen.....	92	6.3	96	6.7	86	6.0	90	6.3	82	5.8	6.2	
Anderson.....	74	9.2	75	9.2	54	6.7	63	7.7	68	8.3	8.2	
Atchison.....	138	8.2	116	6.9	118	7.0	130	7.8	116	7.0	7.4	
Barber.....	51	9.5	40	7.6	33	6.2	47	9.1	42	8.3	8.1	
Barton.....	215	7.8	243	8.5	251	8.9	246	8.8	220	7.9	8.4	
Bourbon.....	139	9.1	128	8.5	129	8.4	131	8.5	112	7.4	8.4	
Brown.....	78	7.0	84	7.7	77	7.2	84	7.9	87	8.3	7.6	
Butler.....	458	7.4	476	7.6	421	7.1	412	6.8	379	6.3	7.0	
Chase.....	34	11.5	44	15.4	34	11.2	46	15.2	31	10.6	12.8	
Chautauqua.....	53	12.2	48	11.2	42	9.6	38	8.9	31	7.4	9.9	
Cherokee.....	139	6.2	121	5.4	123	5.4	138	6.2	138	6.3	5.9	
Cheyenne.....	21	6.6	22	6.8	20	6.3	15	4.8	13	4.2	5.7	
Clark.....	17	7.2	22	9.4	16	6.7	24	10.1	13	5.5	7.8	
Clay.....	83	9.1	60	6.7	71	8.0	52	5.9	74	8.5	7.6	
Cloud.....	71	7.1	91	9.1	76	7.4	62	6.2	70	7.0	7.4	
Coffey.....	69	7.9	58	6.6	74	8.3	67	7.6	65	7.3	7.5	
Comanche.....	1	0.5	18	9.2	22	11.2	19	9.7	13	6.5	7.4	
Cowley.....	280	7.7	313	8.5	297	8.2	289	8.0	268	7.4	8.0	
Crawford.....	240	6.6	272	7.5	246	6.4	252	6.6	227	6.0	6.6	
Decatur.....	26	7.5	28	8.3	33	9.5	26	7.6	24	7.0	8.0	
Dickinson.....	193	9.8	194	9.9	157	8.1	156	8.1	140	7.3	8.6	
Doniphan.....	61	7.8	51	6.4	63	7.6	56	6.7	54	6.6	7.0	
Douglas.....	761	8.2	706	7.2	733	7.3	729	7.3	760	7.4	7.5	
Edwards.....	28	8.5	28	8.5	20	5.8	25	7.5	25	7.5	7.6	
Elk.....	20	6.0	26	7.7	26	8.0	24	7.5	18	5.7	7.0	
Ellis.....	210	8.0	220	8.4	207	7.5	205	7.5	201	7.4	7.8	
Ellsworth.....	42	6.7	49	7.9	53	8.1	43	6.6	45	7.0	7.3	
Finney.....	325	8.9	353	9.4	318	7.8	381	9.5	261	6.6	8.4	
Ford.....	273	9.3	314	10.6	259	8.0	370	11.5	261	8.0	9.5	
Franklin.....	179	7.2	222	8.8	167	6.7	200	8.0	196	7.7	7.7	
Geary.....	491	19.4	509	20.4	450	16.1	511	19.1	527	20.0	19.0	
Gove.....	9	2.9	17	5.6	15	4.9	11	3.7	24	8.0	5.0	
Graham.....	17	5.3	20	6.4	22	7.5	12	4.2	22	7.7	6.2	
Grant.....	59	7.4	62	7.9	69	8.7	64	8.2	42	5.3	7.5	
Gray.....	34	6.1	33	5.9	40	6.8	40	6.7	34	5.6	6.2	
Greeley.....	10	5.9	9	5.5	6	3.9	8	5.3	9	6.1	5.3	
Greenwood.....	60	7.4	55	6.9	61	7.9	59	7.6	52	6.8	7.3	
Hamilton.....	22	9.4	17	7.2	21	7.9	22	8.2	21	7.9	8.1	
Harper.....	52	8.1	45	7.1	56	8.6	49	7.7	48	7.6	7.8	
Harvey.....	246	7.2	249	7.3	254	7.7	234	7.1	252	7.6	7.4	
Haskell.....	31	7.8	29	7.2	23	5.3	33	7.7	44	10.3	7.7	
Hodgeman.....	5	2.3	7	3.1	9	4.3	12	5.6	13	6.0	4.3	
Jackson.....	91	7.5	80	6.6	76	6.0	76	6.0	75	5.9	6.4	
Jefferson.....	119	6.5	118	6.5	102	5.5	99	5.3	118	6.3	6.0	
Jewell.....	23	5.9	23	6.1	17	4.5	21	5.8	26	7.4	5.9	
Johnson.....	2,534	5.9	2,612	5.9	2,686	6.0	2,639	5.7	2,647	5.6	5.8	
Kearny.....	30	7.2	29	7.0	28	6.2	20	4.4	26	5.7	6.1	
Kingman.....	54	6.3	50	5.8	57	6.6	55	6.5	65	7.7	6.6	
Kiowa.....	26	7.5	26	7.8	23	7.0	22	7.0	23	7.4	7.3	
Labette.....	173	7.5	132	5.8	139	6.1	137	6.1	117	5.3	6.2	
Lane.....	17	7.5	16	7.4	17	7.9	19	9.1	15	7.5	7.9	
Leavenworth.....	484	6.8	542	7.6	515	7.5	551	7.8	558	7.9	7.5	
Lincoln.....	30	9.0	32	9.6	27	7.5	16	4.5	18	5.1	7.1	
Linn.....	62	6.8	74	8.0	75	7.8	69	7.1	65	6.7	7.3	
Logan.....	35	11.7	15	5.1	36	11.8	16	5.4	19	6.3	8.1	

Table 57
 Marriages By Number And Rate*
 By County Of Marriage And By Peer Group**
 Kansas, 1998-2002

County of Marriage	Year										5-Year Rate	
	1998		1999		2000		2001		2002			
	Number	Rate										
Lyon.....	263	7.8	289	8.6	295	8.2	268	7.5	279	7.8	8.0	
Marion.....	86	6.3	92	6.8	75	5.6	76	5.7	69	5.2	5.9	
Marshall.....	69	6.3	78	7.2	87	7.9	81	7.5	85	8.0	7.4	
McPherson.....	248	8.7	229	7.9	229	7.7	212	7.2	227	7.7	7.8	
Meade.....	38	8.6	37	8.4	32	6.9	30	6.5	23	5.0	7.1	
Miami.....	213	8.0	174	6.4	208	7.3	227	7.9	200	6.9	7.3	
Mitchell.....	50	7.2	53	7.6	60	8.7	51	7.5	34	5.1	7.2	
Montgomery.....	301	8.1	318	8.6	325	9.0	312	8.8	281	8.0	8.5	
Morris.....	56	9.1	55	8.9	57	9.3	50	8.2	46	7.6	8.6	
Morton.....	21	6.1	30	8.6	46	13.2	31	9.2	26	7.7	9.0	
Nemaha.....	87	8.6	67	6.6	88	8.2	90	8.6	71	6.8	7.8	
Neosho.....	128	7.6	120	7.2	127	7.5	123	7.3	114	6.9	7.3	
Ness.....	28	7.8	21	5.9	24	6.9	26	7.8	20	6.0	6.9	
Norton.....	56	9.7	38	6.7	33	5.5	45	7.7	39	6.6	7.2	
Osage.....	86	5.0	125	7.3	115	6.9	93	5.5	91	5.4	6.0	
Osborne.....	22	4.7	20	4.4	24	5.4	32	7.4	26	6.1	5.6	
Ottawa.....	26	4.4	44	7.5	31	5.0	28	4.5	44	7.0	5.7	
Pawnee.....	50	6.7	47	6.5	58	8.0	57	8.2	59	8.5	7.6	
Phillips.....	39	6.4	58	9.7	38	6.3	30	5.1	41	7.0	6.9	
Pottawatomie.....	103	5.5	134	7.1	85	4.7	83	4.5	126	6.8	5.7	
Pratt.....	78	8.0	94	9.9	79	8.2	78	8.2	80	8.4	8.5	
Rawlins.....	24	7.7	25	8.3	17	5.7	21	7.2	22	7.6	7.3	
Reno.....	593	9.4	594	9.3	560	8.6	512	8.0	485	7.6	8.6	
Republic.....	39	6.4	43	7.2	41	7.0	25	4.4	32	5.9	6.2	
Rice.....	62	6.0	65	6.4	64	5.9	67	6.3	67	6.4	6.2	
Riley.....	497	7.8	487	7.6	480	7.6	421	7.0	467	7.6	7.5	
Rooks.....	44	7.8	40	7.1	49	8.6	23	4.1	41	7.5	7.0	
Rush.....	24	7.0	26	7.7	24	6.8	30	8.6	27	7.7	7.6	
Russell.....	51	6.7	45	6.0	62	8.4	60	8.4	56	7.9	7.5	
Saline.....	489	9.5	523	10.2	423	7.9	477	8.9	418	7.8	8.9	
Scott.....	42	8.4	37	7.5	47	9.2	43	8.6	29	5.9	7.9	
Sedgwick.....	3,956	8.8	3,965	8.8	3,890	8.6	3,912	8.6	3,904	8.5	8.7	
Seward.....	193	9.7	214	10.6	209	9.3	274	12.2	201	8.7	10.1	
Shawnee.....	1,257	7.6	1,379	8.1	1,382	8.1	1,326	7.8	1,348	7.9	7.9	
Sheridan.....	18	6.6	12	4.5	15	5.3	10	3.7	14	5.3	5.1	
Sherman.....	40	6.1	48	7.4	51	7.5	43	6.6	37	5.8	6.7	
Smith.....	36	7.8	46	10.1	36	7.9	40	9.0	18	4.1	7.8	
Stafford.....	31	6.2	31	6.2	22	4.6	26	5.5	24	5.1	5.5	
Stanton.....	16	7.1	12	5.4	18	7.5	20	8.3	17	7.1	7.1	
Stevens.....	51	9.5	37	6.9	47	8.6	52	9.7	46	8.6	8.7	
Sumner.....	228	8.4	235	8.6	212	8.2	194	7.5	200	7.8	8.1	
Thomas.....	42	5.2	66	8.3	50	6.1	53	6.6	51	6.3	6.5	
Trego.....	29	8.8	22	6.7	33	9.9	23	7.2	23	7.3	8.0	
Wabaunsee.....	42	6.3	41	6.2	36	5.2	33	4.8	37	5.5	5.6	
Wallace.....	11	6.1	12	6.7	13	7.4	12	7.0	7	4.1	6.3	
Washington.....	51	7.9	29	4.5	41	6.3	52	8.2	45	7.2	6.8	
Wichita.....	18	6.8	15	5.8	16	6.3	28	11.0	15	6.0	7.2	
Wilson.....	81	7.9	85	8.2	92	8.9	59	5.8	67	6.6	7.5	
Woodson.....	34	8.5	32	8.2	20	5.3	32	8.5	29	7.9	7.7	
Wyandotte.....	1,271	8.3	1,297	8.6	1,310	8.3	1,351	8.6	1,181	7.5	8.3	
Peer Group												
Frontier	707	7.2	717	7.4	723	7.3	708	7.3	633	6.6	7.2	
Rural	2,120	7.3	2,118	7.4	2,132	7.3	2,008	7.0	1,994	7.0	7.2	
Densely -Settled Rural .	3,343	7.9	3,456	8.1	3,226	7.5	3,407	7.9	3,047	7.1	7.7	
Semi-Urban	4,454	8.4	4,655	8.8	4,344	8.1	4,377	8.2	4,269	8.0	8.3	
Urban	9,779	7.6	9,959	7.6	10,001	7.5	9,957	7.4	9,840	7.2	7.5	

* Rate per 1,000 population

** See Technical Notes for Peer Group definition.

Occurrence data

Table 58
 Marriage Dissolutions by Number And Rate*
 By County of Action And By Peer Group**
 Kansas, 1998-2002

County of Action											5-Year Rate	
	1998		1999		2000		2001		2002			
	Number	Rate										
Kansas.....	10,363	3.9	9,926	3.7	10,105	3.8	9,885	3.7	9,645	3.6	3.7	
Allen.....	30	2.1	39	2.7	44	3.1	36	2.5	30	2.1	2.5	
Anderson.....	27	3.3	33	4.1	41	5.1	35	4.3	27	3.3	4.0	
Atchison.....	73	4.3	58	3.4	65	3.9	78	4.7	85	5.1	4.3	
Barber.....	27	5.1	24	4.6	27	5.1	26	5.0	19	3.7	4.7	
Barton.....	87	3.1	70	2.4	56	2.0	62	2.2	83	3.0	2.5	
Bourbon.....	54	3.5	65	4.3	61	4.0	57	3.7	61	4.0	3.9	
Brown.....	35	3.2	30	2.7	47	4.4	33	3.1	35	3.3	3.3	
Butler.....	231	3.7	196	3.1	238	4.0	173	2.9	182	3.0	3.3	
Chase.....	5	1.7	8	2.8	6	2.0	1	0.3	7	2.4	1.8	
Chautauqua.....	19	4.4	16	3.7	22	5.0	25	5.9	16	3.8	4.6	
Cherokee.....	84	3.7	66	2.9	56	2.5	61	2.7	69	3.1	3.0	
Cheyenne.....	14	4.4	9	2.8	12	3.8	13	4.2	15	4.8	4.0	
Clark.....	12	5.1	3	1.3	5	2.1	10	4.2	7	2.9	3.1	
Clay.....	21	2.3	32	3.6	40	4.5	30	3.4	31	3.6	3.5	
Cloud.....	30	3.0	38	3.8	49	4.8	41	4.1	40	4.0	3.9	
Coffey.....	150	17.2	124	14.2	151	17.0	112	12.7	98	11.0	14.4	
Comanche.....	0	0.0	6	3.1	4	2.0	2	1.0	3	1.5	1.5	
Cowley.....	206	5.7	162	4.4	195	5.4	191	5.3	200	5.5	5.3	
Crawford.....	178	4.9	180	5.0	185	4.8	136	3.6	145	3.8	4.4	
Decatur.....	11	3.2	9	2.7	6	1.7	9	2.6	8	2.3	2.5	
Dickinson.....	86	4.4	103	5.2	89	4.6	90	4.7	73	3.8	4.5	
Doniphan.....	19	2.4	39	4.9	22	2.7	36	4.3	29	3.5	3.6	
Douglas.....	381	4.1	393	4.0	344	3.4	286	2.9	298	2.9	3.5	
Edwards.....	9	2.7	7	2.1	15	4.3	8	2.4	9	2.7	2.8	
Elk.....	6	1.8	24	7.1	19	5.8	21	6.6	18	5.7	5.4	
Ellis.....	103	3.9	96	3.6	116	4.2	110	4.0	101	3.7	3.9	
Ellsworth.....	53	8.4	57	9.2	54	8.3	58	8.9	39	6.1	8.2	
Finney.....	146	4.0	161	4.3	137	3.4	148	3.7	129	3.2	3.7	
Ford.....	107	3.6	130	4.4	112	3.5	104	3.2	113	3.5	3.6	
Franklin.....	91	3.7	136	5.4	110	4.4	131	5.3	126	5.0	4.8	
Geary.....	235	9.3	260	10.4	225	8.1	228	8.5	234	8.9	9.0	
Gove.....	3	1.0	3	1.0	8	2.6	6	2.0	1	0.3	1.4	
Graham.....	15	4.7	3	1.0	9	3.1	17	6.0	6	2.1	3.4	
Grant.....	26	3.2	42	5.3	25	3.2	27	3.5	30	3.8	3.8	
Gray.....	13	2.3	12	2.2	11	1.9	11	1.8	19	3.1	2.3	
Greeley.....	8	4.7	6	3.6	7	4.6	0	0.0	0	0.0	2.6	
Greenwood.....	30	3.7	48	6.0	39	5.1	33	4.2	28	3.7	4.5	
Hamilton.....	6	2.6	11	4.6	16	6.0	18	6.7	10	3.8	4.7	
Harper.....	21	3.3	19	3.0	20	3.1	12	1.9	25	4.0	3.1	
Harvey.....	86	2.5	137	4.0	38	1.2	120	3.6	123	3.7	3.0	
Haskell.....	18	4.5	10	2.5	9	2.1	6	1.4	8	1.9	2.5	
Hodgeman.....	6	2.7	3	1.3	3	1.4	3	1.4	5	2.3	1.8	
Jackson.....	44	3.6	36	3.0	36	2.8	53	4.2	40	3.1	3.3	
Jefferson.....	60	3.3	52	2.9	68	3.7	60	3.2	51	2.7	3.2	
Jewell.....	12	3.1	13	3.4	17	4.5	8	2.2	11	3.1	3.3	
Johnson.....	501	1.2	458	1.0	469	1.0	427	0.9	546	1.1	1.0	
Kearny.....	3	0.7	13	3.1	8	1.8	5	1.1	14	3.1	2.0	
Kingman.....	38	4.4	23	2.7	27	3.1	24	2.8	26	3.1	3.2	
Kiowa.....	5	1.4	5	1.5	6	1.8	7	2.2	11	3.5	2.1	
Labette.....	120	5.2	117	5.1	129	5.6	96	4.3	105	4.7	5.0	
Lane.....	12	5.3	8	3.7	4	1.9	10	4.8	6	3.0	3.7	
Leavenworth.....	139	1.9	86	1.2	156	2.3	205	2.9	231	3.3	2.3	
Lincoln.....	13	3.9	9	2.7	9	2.5	5	1.4	10	2.8	2.7	
Linn.....	45	4.9	21	2.3	33	3.4	34	3.5	34	3.5	3.5	
Logan.....	14	4.7	6	2.0	4	1.3	15	5.1	7	2.3	3.1	

Table 58
 Marriage Dissolutions by Number And Rate*
 By County of Action And By Peer Group**
 Kansas, 1998-2002

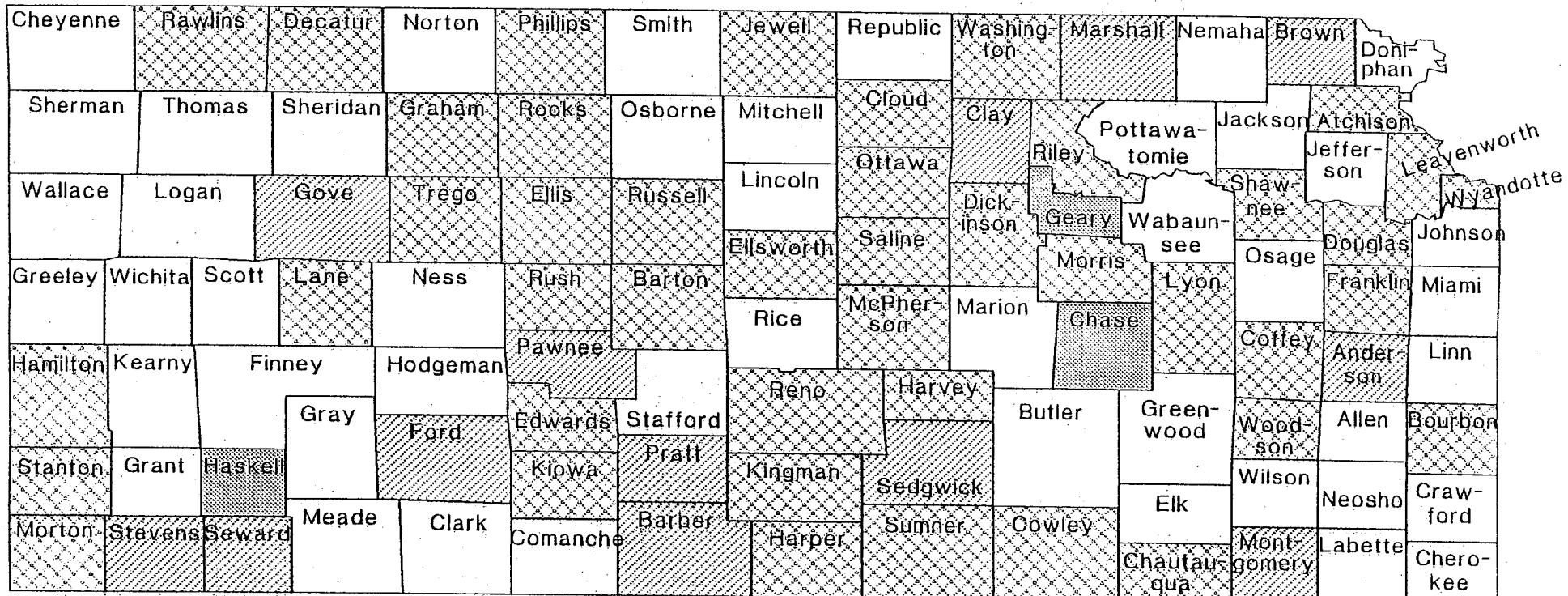
County of Action											5-Year Rate	
	1998		1999		2000		2001		2002			
	Number	Rate										
Lyon.....	41	1.2	51	1.5	38	1.1	53	1.5	64	1.8	1.4	
Marion.....	47	3.5	39	2.9	39	2.9	28	2.1	38	2.9	2.9	
Marshall.....	28	2.5	26	2.4	36	3.3	48	4.5	31	2.9	3.1	
McPherson.....	71	2.5	76	2.6	95	3.2	113	3.8	112	3.8	3.2	
Meade.....	12	2.7	8	1.8	10	2.2	9	1.9	12	2.6	2.2	
Miami.....	74	2.8	55	2.0	55	1.9	44	1.5	42	1.5	1.9	
Mitchell.....	16	2.3	25	3.6	28	4.0	24	3.5	24	3.6	3.4	
Montgomery.....	183	4.9	177	4.8	156	4.3	153	4.3	140	4.0	4.5	
Morris.....	21	3.4	27	4.4	20	3.3	26	4.3	18	3.0	3.7	
Morton.....	8	2.3	16	4.6	13	3.7	8	2.4	14	4.2	3.4	
Nemaha.....	33	3.3	23	2.3	26	2.4	37	3.5	28	2.7	2.8	
Neosho.....	70	4.2	69	4.1	63	3.7	108	6.4	71	4.3	4.5	
Ness.....	16	4.4	9	2.5	11	3.2	11	3.3	8	2.4	3.2	
Norton.....	32	5.6	22	3.9	32	5.4	36	6.2	30	5.1	5.2	
Osage.....	57	3.3	76	4.4	87	5.2	55	3.3	65	3.8	4.0	
Osborne.....	22	4.7	19	4.1	11	2.5	15	3.5	9	2.1	3.4	
Ottawa.....	19	3.2	22	3.7	16	2.6	22	3.6	18	2.9	3.2	
Pawnee.....	30	4.0	26	3.6	44	6.1	28	4.0	42	6.0	4.7	
Phillips.....	20	3.3	26	4.4	32	5.3	31	5.3	22	3.7	4.4	
Pottawatomie.....	57	3.0	53	2.8	51	2.8	50	2.7	45	2.4	2.7	
Pratt.....	42	4.3	43	4.5	37	3.8	41	4.3	39	4.1	4.2	
Rawlins.....	4	1.3	8	2.7	3	1.0	14	4.8	13	4.5	2.9	
Reno.....	457	7.2	411	6.5	387	6.0	367	5.7	376	5.9	6.3	
Republic.....	15	2.5	12	2.0	26	4.5	19	3.4	22	4.0	3.3	
Rice.....	31	3.0	32	3.1	29	2.7	27	2.6	32	3.0	2.9	
Riley.....	199	3.1	184	2.9	175	2.8	168	2.8	182	3.0	2.9	
Rooks.....	14	2.5	17	3.0	11	1.9	16	2.9	13	2.4	2.5	
Rush.....	7	2.1	9	2.7	15	4.2	4	1.1	5	1.4	2.3	
Russell.....	22	2.9	24	3.2	29	3.9	19	2.7	24	3.4	3.2	
Saline.....	312	6.0	288	5.6	333	6.2	340	6.3	272	5.0	5.8	
Scott.....	23	4.6	11	2.2	17	3.3	12	2.4	19	3.9	3.3	
Sedgwick.....	2,906	6.5	2,770	6.1	2,877	6.4	3,004	6.6	2,762	6.0	6.3	
Seward.....	98	4.9	98	4.9	112	5.0	79	3.5	91	3.9	4.4	
Shawnee.....	750	4.5	689	4.0	713	4.2	684	4.0	717	4.2	4.2	
Sheridan.....	5	1.8	11	4.1	8	2.8	9	3.3	7	2.7	2.9	
Sherman.....	37	5.7	39	6.0	34	5.0	33	5.1	33	5.2	5.4	
Smith.....	13	2.8	10	2.2	12	2.6	4	0.9	11	2.5	2.2	
Stafford.....	21	4.2	16	3.2	11	2.3	5	1.1	8	1.7	2.5	
Stanton.....	5	2.2	8	3.6	11	4.6	8	3.3	10	4.1	3.6	
Stevens.....	29	5.4	34	6.3	32	5.9	35	6.5	23	4.3	5.7	
Sumner.....	76	2.8	84	3.1	96	3.7	65	2.5	85	3.3	3.1	
Thomas.....	31	3.9	33	4.1	32	3.9	29	3.6	27	3.3	3.8	
Trego.....	11	3.4	13	4.0	20	6.0	2	0.6	11	3.5	3.5	
Wabaunsee.....	16	2.4	16	2.4	17	2.5	13	1.9	12	1.8	2.2	
Wallace.....	6	3.3	4	2.2	1	0.6	2	1.2	5	3.0	2.1	
Washington.....	13	2.0	16	2.5	10	1.5	10	1.6	10	1.6	1.8	
Wichita.....	7	2.6	7	2.7	7	2.8	2	0.8	4	1.6	2.1	
Wilson.....	48	4.7	61	5.9	67	6.5	48	4.7	57	5.6	5.5	
Woodson.....	14	3.5	13	3.3	11	2.9	12	3.2	14	3.8	3.3	
Wyandotte.....	526	3.5	405	2.7	405	2.6	362	2.3	251	1.6	2.5	
Peer Group												
Frontier	297	3.0	292	3.0	307	3.1	272	2.8	276	2.9	3.0	
Rural	1,172	4.1	1,144	4.0	1,240	4.3	1,133	3.9	1,080	3.8	4.0	
Densely -Settled Rural	1,604	3.8	1,614	3.8	1,654	3.8	1,599	3.7	1,598	3.7	3.8	
Semi-Urban	2,226	4.2	2,161	4.1	2,096	3.9	2,118	4.0	2,117	4.0	4.0	
Urban	5,064	3.9	4,715	3.6	4,808	3.6	4,763	3.5	4,574	3.3	3.6	

* Rate per 1,000 population

** See Technical Notes for Peer Group definition.

Occurrence data

Marriage Rates By County Of Occurrence Kansas, 2002



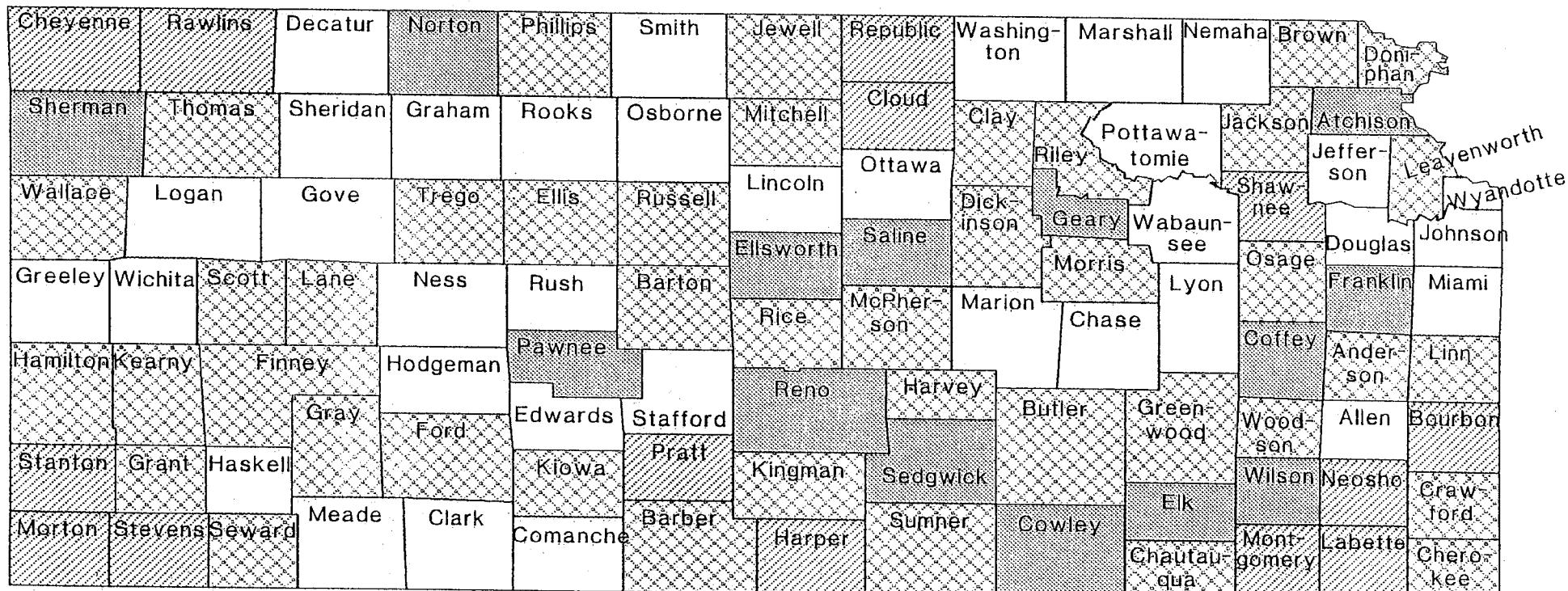
Marriages Per 1,000 Population

State Rate: 7.3

Legend	
Under 7.0	
7.0 to 7.9	
8.0 to 8.9	
9.0 and over	

Figure 36

Marriage Dissolution Rates By County Of Occurrence Kansas, 2002



Marriage Dissolutions Per 1,000 Population

State Rate: 3.6

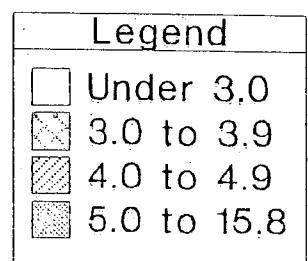


Figure 37

Marriage Rates

Kansas and the U.S., 1952-2002

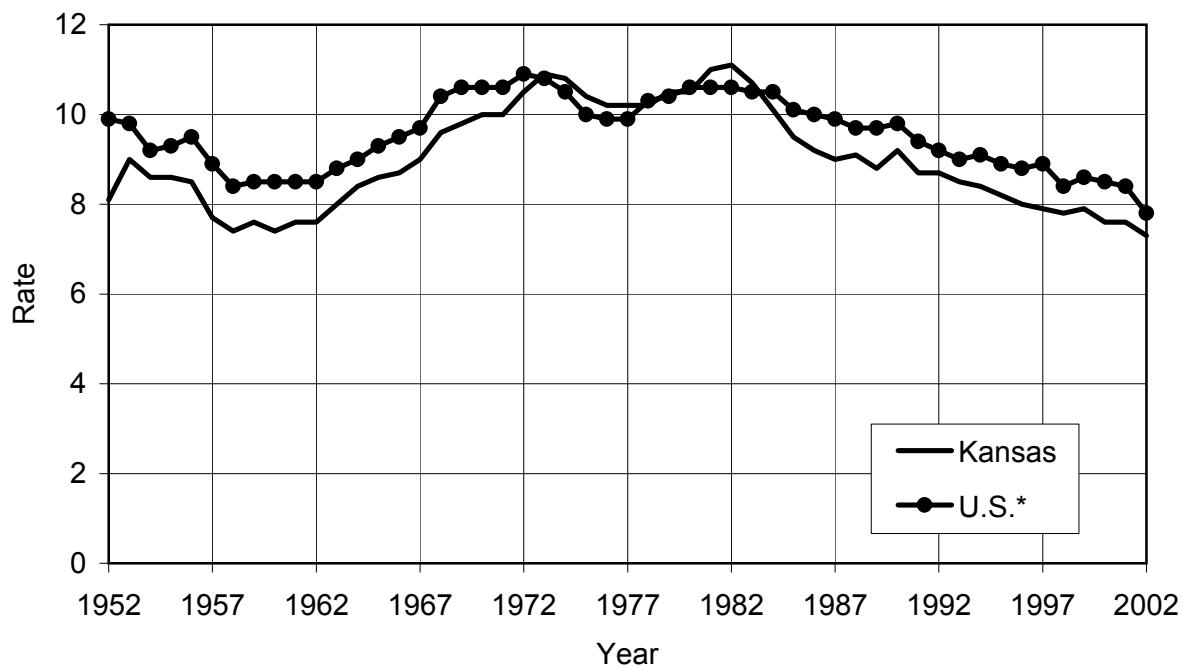


Figure 38

*1991-2002 Rates Provisional.

Rate per 1,000 Population

Occurrence Data

Marriage Dissolution Rates

Kansas and the U.S., 1952-2002

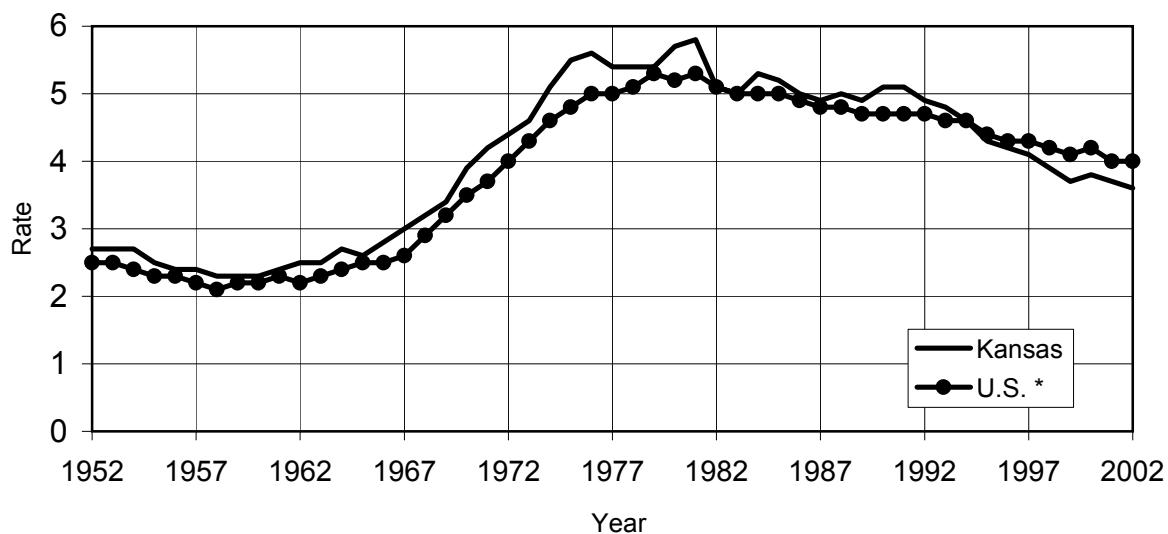


Figure 39

*1991-2002 Rates Provisional.

Rate per 1,000 Population

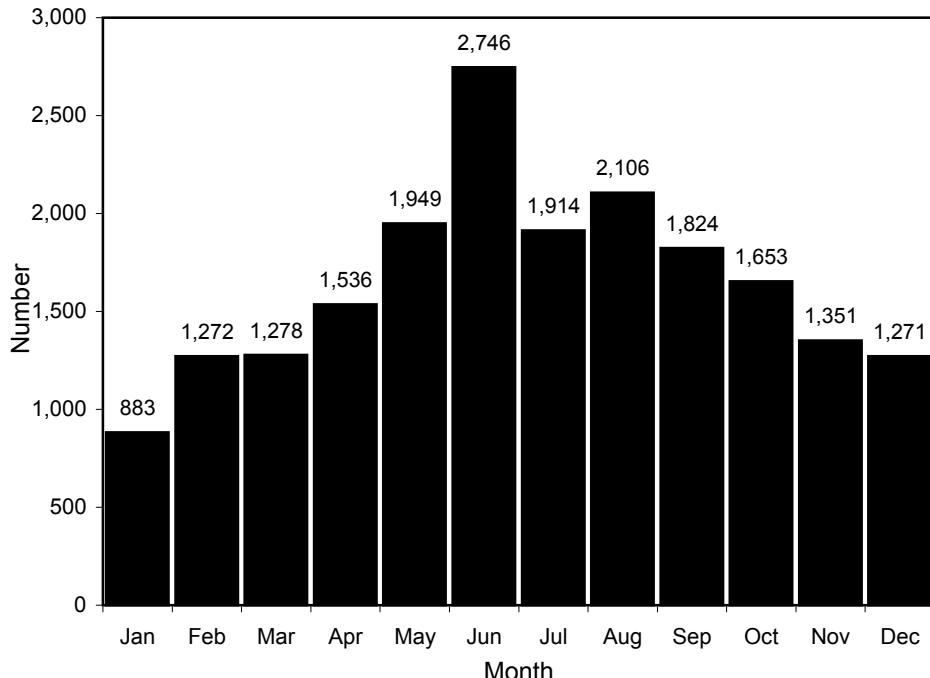
Occurrence Data

Number of Marriages by Month

Kansas 2001

Number of Marriages by Month

Kansas, 2002



Occurrence data

Figure 40

Table 59
Marriages By Premarital Status Of Bride
By Premarital Status Of Groom
Kansas, 2002

Premarital Status of Groom	Total	Premarital Status of Bride				
		Never Married	Divorced	Annulled	Widowed	Not Stated
Total.....	19,783	12,407	6,545	146	605	80
Never Married.....	12,536	10,368	1,984	69	81	34
Divorced.....	6,483	1,935	4,220	56	264	8
Annulled.....	136	48	66	16	6	0
Widowed.....	568	47	262	5	254	0
Not Stated.....	60	9	13	0	0	38

Occurrence data

Table 60
 Marriages By Age-Group Of Bride By Age-Group Of Groom
 Kansas, 2002

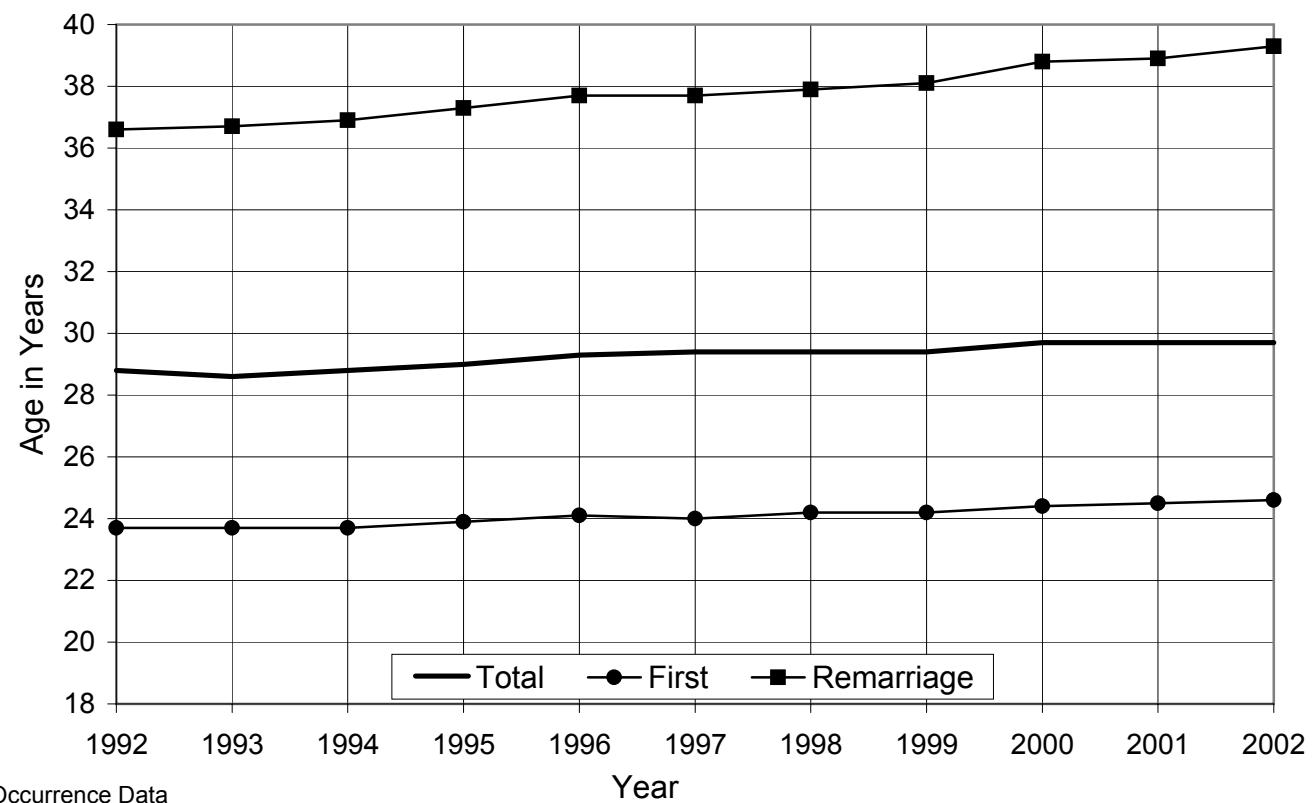
Age-Group of Groom	Total	Age-Group of Bride														
		Under 15	15-19	20-24	25-29	30-34	35-39	40-44	45-49	50-54	55-59	60-64	65-69	70-74	75 & Over	Not Stated
Total.....	19,783	3	1,979	6,615	3,764	2,229	1,601	1,401	971	511	277	171	121	72	68	0
Under 15.....	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15-19.....	734	2	508	199	20	3	2	0	0	0	0	0	0	0	0	0
20-24.....	5,625	1	1,142	3,717	574	130	38	18	3	2	0	0	0	0	0	0
25-29.....	4,609	0	243	2,011	1,729	448	124	42	10	1	0	1	0	0	0	0
30-34.....	2,613	0	51	465	925	700	303	113	35	16	3	2	0	0	0	0
35-39.....	1,837	0	24	136	341	518	458	253	80	18	8	1	0	0	0	0
40-44.....	1,538	0	7	55	119	283	394	420	187	57	10	6	0	0	0	0
45-49.....	1,064	0	4	22	31	93	171	333	302	78	24	1	5	0	0	0
50-54.....	715	0	0	7	18	31	73	159	207	157	52	7	3	0	1	0
55-59.....	399	0	0	2	4	15	24	39	88	115	81	23	6	0	2	0
60-64.....	248	0	0	1	3	5	9	16	37	36	60	59	14	8	0	0
65-69.....	148	0	0	0	0	1	1	4	9	20	21	42	44	6	0	0
70-74.....	107	0	0	0	0	1	1	3	6	8	10	16	29	24	9	0
75 & Over.....	146	0	0	0	0	1	3	1	7	3	8	13	20	34	56	0
Not Stated.....	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Occurrence data

Average Age at Marriage

Kansas, 1992-2002

Bride



Groom

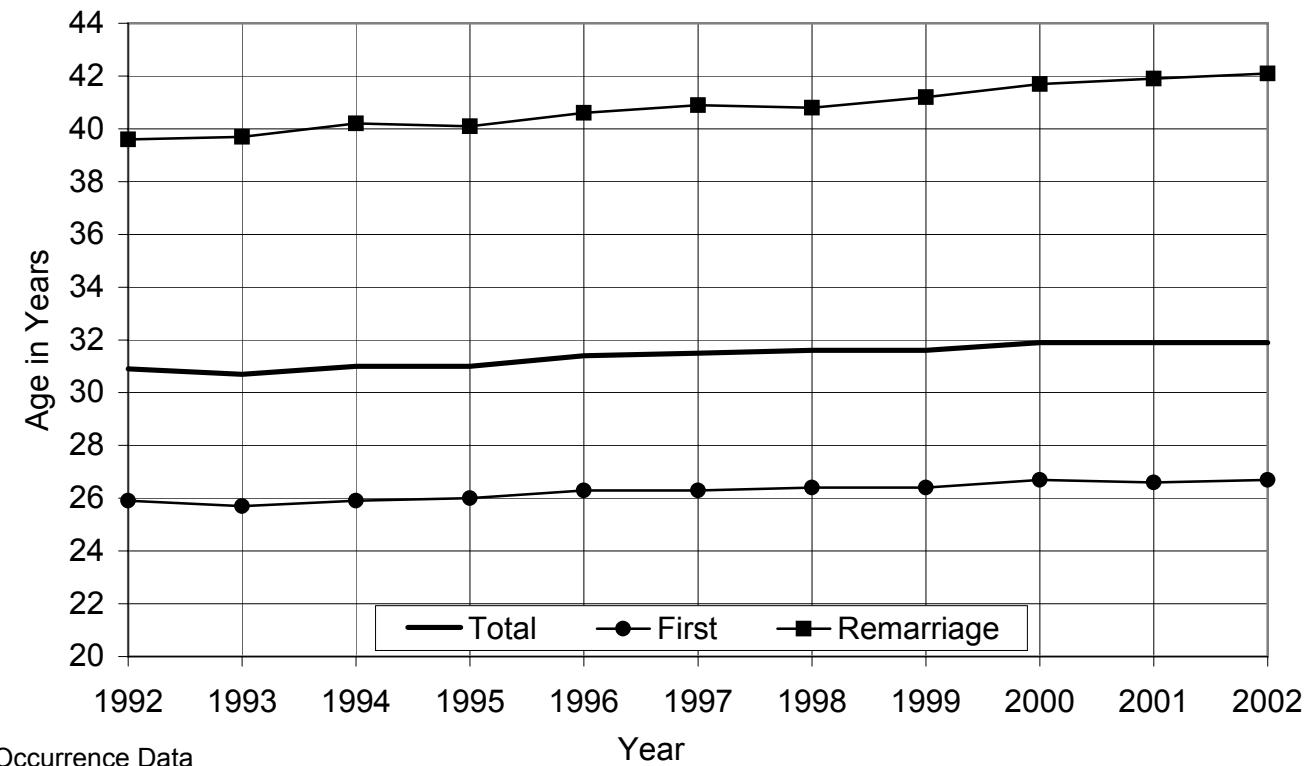


Figure 41

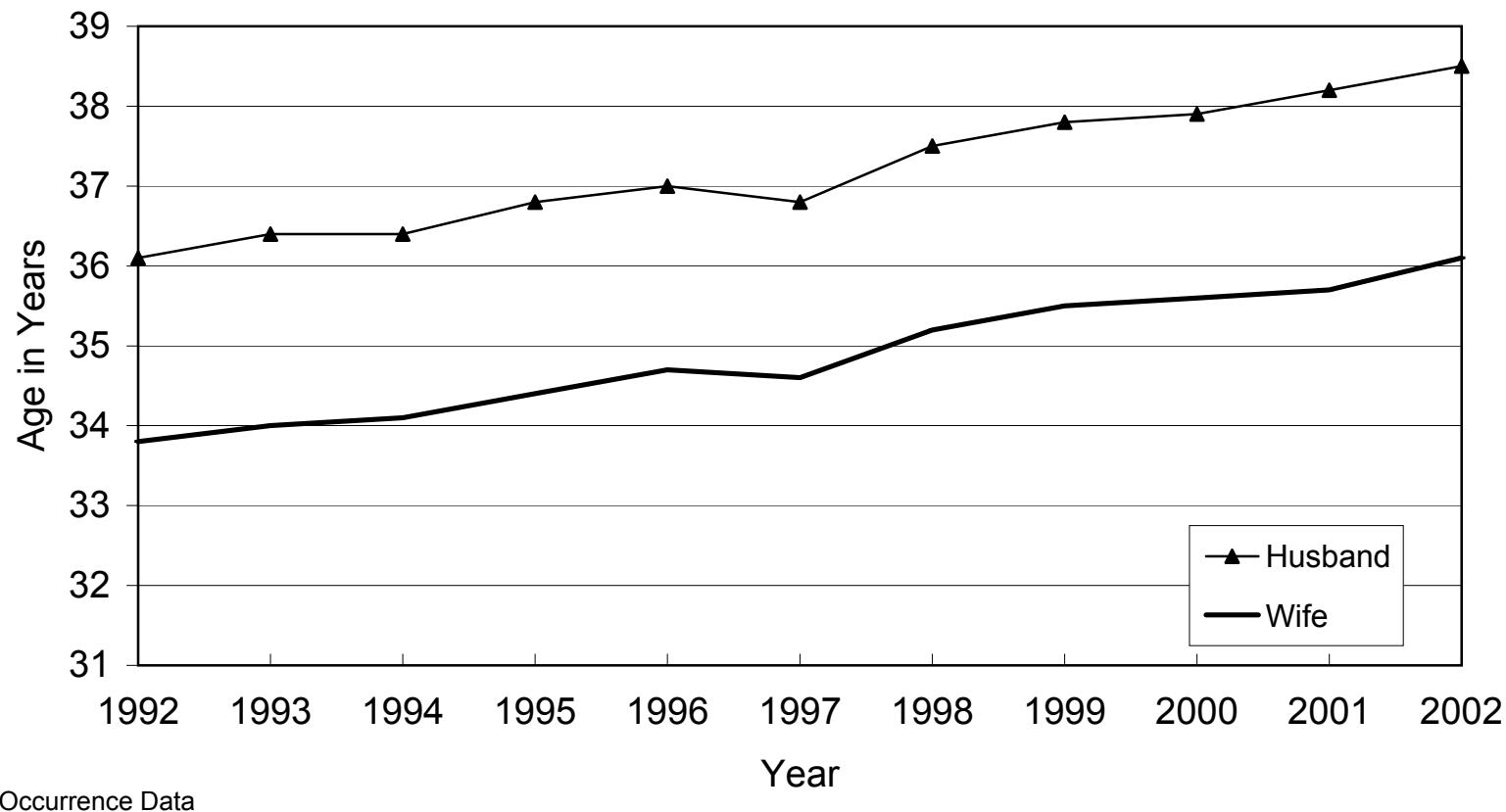
Table 61
 Marriage Dissolutions by Age-Group of Wife by Age-Group of Husband
 Kansas, 2002

Age-Group of Husband	Age-Group of Wife															
	Total	Under 15	15-19	20-24	25-29	30-34	35-39	40-44	45-49	50-54	55-59	60-64	65-69	70-74	75 & Over	Not Stated
Total.....	9,645	0	112	1,302	1,590	1,583	1,466	1,342	939	522	252	142	71	28	25	271
Under 15.....	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15-19.....	21	0	8	10	2	0	0	0	0	0	0	0	0	0	0	1
20-24.....	850	0	84	607	108	24	5	1	2	0	0	0	0	0	0	19
25-29.....	1,481	0	16	494	719	171	44	12	1	2	0	0	0	0	0	22
30-34.....	1,576	0	1	123	504	670	173	49	16	4	2	1	1	0	0	32
35-39.....	1,509	0	0	35	145	437	586	189	62	22	6	1	0	0	0	26
40-44.....	1,379	0	2	9	57	169	400	517	150	34	9	3	0	0	0	29
45-49.....	1,082	0	0	6	25	57	154	358	348	76	26	5	2	2	0	23
50-54.....	745	0	0	3	4	23	61	131	243	218	35	12	5	0	0	10
55-59.....	383	0	0	0	1	9	17	48	72	115	94	17	5	0	0	5
60-64.....	186	0	0	0	1	0	4	10	24	33	51	46	9	2	0	6
65-69.....	107	0	0	0	0	1	2	5	4	8	19	34	22	3	3	6
70-74.....	59	0	0	0	0	0	2	0	3	5	3	12	19	10	1	4
75 & Over.....	57	0	0	0	0	0	1	0	1	1	4	8	7	11	20	4
Not Stated.....	210	0	1	15	24	22	17	22	13	4	3	3	1	0	1	84

Occurrence data

Average Age at Marriage Dissolution

Kansas, 1992-2002



Occurrence Data

Figure 42

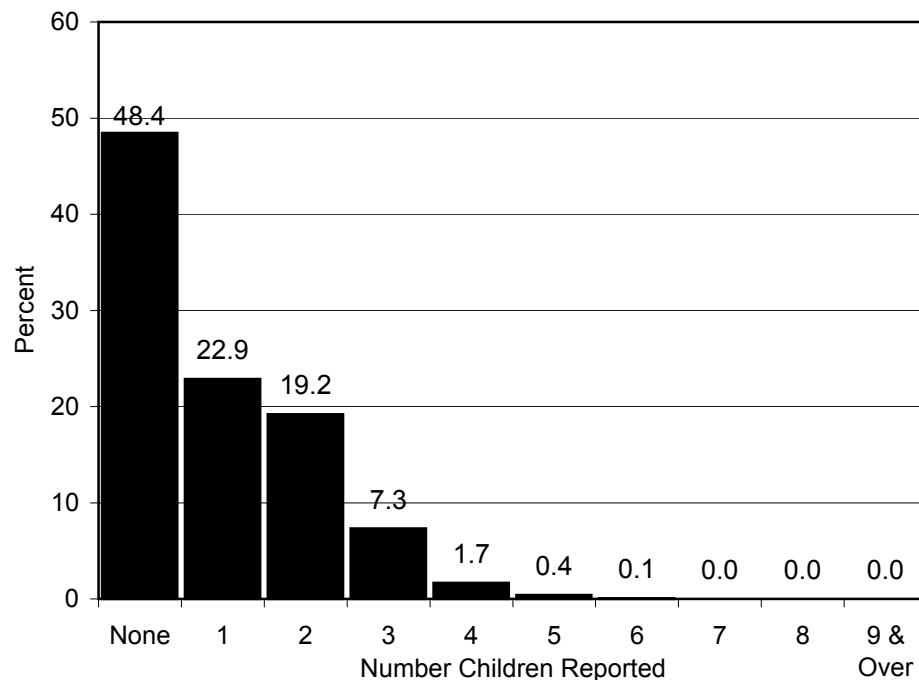
Table 62
 Marriage Dissolutions
 By Duration of Marriage in Years
 Kansas, 2002

Duration of Marriage	Total	Divorces	Annulments
Total.....	9,645	9,310	335
Under 1.....	790	588	202
1.....	854	779	75
2.....	913	886	27
3.....	813	805	8
4.....	666	662	4
5.....	604	599	5
6.....	527	527	0
7.....	475	473	2
8.....	372	370	2
9.....	317	316	1
10.....	320	318	2
11.....	306	305	1
12.....	256	254	2
13.....	215	215	0
14.....	222	222	0
15.....	164	164	0
16.....	172	172	0
17.....	155	154	1
18.....	150	150	0
19.....	161	161	0
20-24.....	570	568	2
25-29.....	316	315	1
30-34.....	180	180	0
35-39.....	66	66	0
40 & Over.....	61	61	0
Not Stated.....	0	0	0

Occurrence data

Marriage Dissolutions:

Percent Distribution by Number of Minor Children
Kansas, 2002



Occurrence Data

Figure 43

Table 63
Marriage Dissolutions by Number of Minor Children Reported
and Number of Minor Children Affected
Kansas, 2002

Number of Minor Children Reported	Divorces		Annulments		Total Children Affected
	Number	Percent	Number	Percent	
Total.....	9,310	100.0	335	100.0	8,917
None.....	4,368	46.9	305	91.0	0
1	2,186	23.5	19	5.7	2,205
2	1,846	19.8	7	2.1	3,706
3	703	7.6	4	1.2	2,121
4 or More.....	207	2.2	0	0.0	885
Not Stated.....	0	0	0	0	0

*Represents the number of children involved in marriages ending in divorce or annulment.
Occurrence

Technical Notes

Registration. The reporting of Kansas vital events to the Kansas Department of Health and Environment (KDHE) is mandated by law (K.S.A. 65-102). The filing of birth and death records was begun in 1911 and the registration of marriages and divorces was initiated in 1913 and 1951 respectively. Certificates of births, deaths, fetal deaths, marriages, marriage dissolutions, and reports of abortions are completed by the combined efforts of physicians, hospital personnel, funeral directors, and local courts. All certificates and reports are filed with the Office of Vital Statistics by direct reporting. Since registration of vital events began, over ten million records have been processed, filed and indexed.

Quality of Data. The quality of the analyses in the Annual Summary of Vital Statistics depends on the accuracy of the Kansas vital statistics data. The Office of Vital Statistics makes every effort to ensure the completeness and accuracy of the certificates filed. An interchange agreement with all 50 states and Canada ensures that vital events occurring to Kansas residents in other states or Canada are recorded. Tabulation of vital events for 2002 in-state occurrences is maintained through March 15, 2003, while out-of-state occurrences are maintained through May 1, 2003. Reports filed later consist of less than one percent of the total reports filed, are considered negligible, and are omitted from this report.

Residence vs Occurrence Data. Residence data is information compiled according to the usual residence regardless of where the event occurred (including events occurring out-of-state). Occurrence data is information compiled according to the geographical location where the event took place, regardless of the actual residence. Information compiled for births, fetal deaths, deaths and abortions in this report are residence data, while marriages and marriage dissolutions are occurrence data.

Peer Groups. For various demographic studies, it is useful to consider groups of counties with similar characteristics. "Peer Groups" of counties, as used in this summary, are defined as those with similar population density based on their 2000 actual census counts. In order to facilitate a time series comparison the assignment of counties to their peer group remains unchanged until the next decennial census. They will not necessarily have similar values for any other indicators. Frontier counties are defined as those with less than 6.0 persons per square mile, Rural counties as those with 6.0 - 19.9 persons per square mile, Densely-Settled Rural counties as those with 20.0 - 39.9 persons per square mile, Semi-Urban counties as those with 40.0 - 149.9 persons per square mile, and Urban counties as those with 150.0 or more persons per square mile. These definitions originated with the Kansas Department of Health and Environment, Office of Local and Rural Health, and should *not* be confused with the U.S. Census Bureau's definitions of urban and

Technical Notes (Cont.)

rural areas. Sources for calculation of population densities are population figures from the 2000 U.S. Census and land areas from the 2000 U.S. Census.

Counties are grouped in population density peer groups as follows:

Frontier

Barber	Wallace	Republic	Labette
Chase	Wichita	Rice	McPherson
Cheyenne		Rooks	Neosho
Clark	Rural	Russell	Osage
Comanche	Anderson	Scott	Pottawatomie
Decatur	Brown	Sherman	Seward
Edwards	Chautauqua	Stafford	Sumner
Elk	Clay	Stevens	
Gove	Cloud	Thomas	Semi-Urban
Graham	Coffey	Wabaunsee	Butler
Greeley	Ellsworth	Washington	Crawford
Hamilton	Grant	Wilson	Franklin
Hodgeman	Gray	Woodson	Geary
Jewell	Greenwood		Harvey
Kearny	Harper	Densely-	Leavenworth
Kiowa	Haskell	Settled	Lyon
Lane	Jackson	Rural	Miami
Lincoln	Kingman	Allen	Montgomery
Logan	Linn	Atchison	Reno
Meade	Marion	Barton	Riley
Morton	Marshall	Bourbon	Saline
Ness	Mitchell	Cherokee	
Osborne	Morris	Cowley	Urban
Rawlins	Nemaha	Dickinson	Douglas
Rush	Norton	Doniphan	Johnson
Sheridan	Ottawa	Ellis	Sedgwick
Smith	Pawnee	Finney	Shawnee
Stanton	Phillips	Ford	Wyandotte
Trego	Pratt	Jefferson	

Population. State and county population estimates for 1998-1999 were obtained from the U.S. Bureau of the Census (U.S.C.B.) on the Internet at: <http://eire.census.gov/popest>.

City population estimates for 1998-1999 were derived by the KDHE as in the following example for 1999:

$$\frac{1999 \text{ City Population}}{\text{1999 County Population}} = \frac{\text{City Population, 1998}}{\text{County Population, 1998}} \times \frac{x}{\text{1999 County Population}}$$

Technical Notes (Cont.)

Actual population counts from the U.S.C.B. were obtained for 2000 on the internet at <http://www.census.gov/main/www/cen2000.html>. Population estimates for 2001-2002 by the U.S.C.B. and certified by the Kansas Division of the Budget were obtained on the internet at: <http://da.state.ks.us/budget/ecodemo.htm>.

Population estimates by age-group and sex for 1992 were obtained from the U.S. Bureau of the Census, Press Release CB92-93 and CB92-276, respectively. Population estimates for 1993-1996 were obtained from the Census and You, Vol. 29, No. 4, April 1994, Vol. 30, No. 4, April 1995, Vol. 31, No. 3, March, 1996 and Vol. 32, No. 7, July, 1997 U.S.C.B., respectively. Population estimates for 1997-1999 were obtained on the internet at: <http://eire.census.gov/popest/archives/1990.php>. Population counts for 2000 were obtained on the internet at <http://www.census.gov/main/www/cen2000.html>. These numbers were used in age-specific and age-adjusted calculations. Population by age-group and sex was not available from the U.S.C.B. for 2001 and was estimated by the Kansas Department of Health and Environment based on 2000 U.S. Census Bureau numbers. Population estimates for 2002 were obtained from the Vintage 2002 postcensal series by year, age, sex, race, and Hispanic origin, prepared under a collaborative arrangement between the National Center for Health Statistics and the U.S. Census Bureau. The population data are at the Centers for Disease Control and Prevention website at <http://www.cdc.gov/nchs/abort/major/dvs/popbridge/popbridge.htm>.

Due to rounding and variation in estimation methods within the U.S. Census Bureau, some discrepancies may be found in population data. (Tables 2 and 4) Usually differences are negligible and rarely result in discrepancies in the totals. We advise you to utilize state totals from the county population totals when a total population estimate is needed.

Female Population 10-19. Estimates of the Kansas female population for 1992-1999 were obtained from the U.S. Bureau of the Census, and actual population counts were used for 2000.

The 2001 state and county estimates for teenage females (10-14, 10-17, 15-19, 10-19) were compiled by the Kansas Department of Health and Environment based on 2000 U.S. Census Bureau numbers. In order to estimate the 2001 teenage female population for the various age groupings, the 2000 proportion for the age grouping within the total population had to be derived. These estimates were calculated as in the following example for 2001.

$$\begin{array}{rcl} \text{Female Population 10-14 Year} & & 10-14 \text{ Year} \\ \text{Age Group (2000)} & \times & \text{Age-Group} \\ \hline & & (2001) \\ 2000 \text{ Population All Ages} & = & \end{array}$$

The 2002 estimates were prepared by the U.S.C.B. in collaboration with the National Center for Health Statistics. (See above reference)

Technical Notes (Cont.)

Deaths. Underlying causes of death in the 2000 Annual Summary of Vital Statistics are established through a system known as the International Classification of Diseases, 10th Revision (ICD-10). This system promotes uniformity and comparability in the collection and presentation of mortality or death data. Prior to 1999, Kansas used ICD-9 to report mortality statistics.

Periodically the classification system needs to be updated to address new diseases and reflect a better understanding of causes of death. The World Health Organization maintains ICD-10 and the National Center for Health Statistics (NCHS), which compiles national statistics, modifies ICD-10 for use by Kansas and other states.

One of the challenges in the conversion to a new classification system is comparability with statistics compiled under the old system. Because so much has changed, exact comparison is not possible. Not only have the number of causes of death doubled to over 8,000, but the rules of how a death is coded have changed. Greater knowledge of diseases like Alzheimer's and diabetes has resulted in coding rule changes that will increase the number of cases reported. The rule changes may also lower the number of deaths classified as pneumonia and influenza. Death data from 1999 forward are classified by ICD-10, and trends in mortality will be comparable.

Age-Adjusted Death Rates. Mortality rates, the number of deaths per 100,000 population, are a common way to report death statistics so that comparisons can be made from year to year or among geographic areas. Crude death rates compensate for the differences in population within the areas or time periods studied. Crude death rates, however, do not compensate for the different make up of compared populations. For example, some Kansas counties may have more older residents than other counties. To address this, statisticians prepare age-adjusted death rates. The direct method for calculating age-adjusted death rates was used in this report. Age-adjusting is a process by which the age composition of a population is defined as constant so that differences in age composition can be eliminated from the analysis. This is needed because older populations have higher death rates, merely because death rates increase with age. Age-adjusted rates allow for more meaningful comparison of the risk of mortality over time and among groups.

For decades Kansas and many other states have used the 1940 standard population for age-adjusting. Other states have used a 1970 or 1980 population standard. Moving to a 2000 population standard, as recommended by NCHS, will eliminate confusion and misunderstanding created by the use of various population standards. Age- adjusted rates calculated using the 1940 population standard can't be compared to rates created using the 2000 standard. Since the benefit from age-adjusting rates comes only from using the same population standard, comparison between different standards would produce misleading results. Kansas began using the 2000 population standard in the 1999 Annual Summary of Vital Statistics. As part of its implementation of the new age-adjusting population standard, the Center for Health and Environmental Statistics (CHES) produced the report *Age Standardization of Kansas Death*

Technical Notes (Cont.)

Rates: Implications of the Year 2000 Standard. Copies can be obtained at the CHES Web site <http://www.kdhe.state.ks.us/ches/>.

Years of Potential Life Lost (YPLL). The YPLL, for this report, is a measurement of the number of years of potential life lost by each death occurring before the average life expectancy. This calculation provides more information on the societal impact of mortality. Years of life lost counts deaths at a younger age more heavily than those at older ages (e.g., the younger person has a greater potential for years left than an elderly person). YPLL were calculated by subtracting mid-point years of the 5-year age-groups from life expectancies for all Kansans and male and female Kansans. The subtraction leaves a remainder - the years of potential life lost, which is then multiplied by the number of deaths in that particular age-group and subsequently all calculations for the five-year age-groups beginning with 0-4 and through over 85 are summed to provide the total years of life lost. In making the calculations, the age-groups with mid-points larger than the life expectancy were set to zero because they would not contribute years of life lost (e.g., they are over the life expectancy). For this report, the life expectancy for all Kansans is 77.4 years, males 74.9 and females 79.8 years. These 2000 life expectancies were prepared by the KDHE Center for Health and Environmental Statistics. Since the 1992 Annual Summary of Vital Statistics, CHES has used 1990 life tables prepared by the Kansas Division of the Budget. In an effort to update this data CHES has prepared the report *Abridged Life Tables, Kansas, 2000*. Copies can be obtained on the Center for Health and Environmental Statistics website at: <http://www.kdhe.state.ks.us/ches/research.html>.

Rate Reliability. Vital statistics are easily influenced by random variation and single-year rates can fluctuate from year to year. A multiple-year rate such as a five- or ten- year average of single-year rates would be more accurate in formulating conclusions on vital events. For example, between 1998 and 2002 the infant death rate for Kansas ranged from 6.7 to 7.3, while the 1998-2002 five-year infant death rate for Kansas was 7.1 infant deaths per 1,000 live births. A five or ten-year rate smooths some of the variation in single-year rates and would be a more reliable indicator of infant death rates in Kansas.

Rates based on a small or large number of events in a sparsely populated area can vary widely. To exemplify the variation that may occur with a small change in the number of events, in 2002 Greeley county was the least populated county in Kansas with 1,472 residents and Johnson county was the largest with 476,536 residents. With 22 deaths occurring in Greeley county in 2002, the crude death rate was 14.9 deaths per 1,000 population; whereas 2,861 deaths occurring in Johnson county resulted in a crude death rate of 6.0 deaths per 1,000 population. If five more deaths occurred in each county (e.g., multiple- death accident), Greeley county's crude death rate would have increased to 18.3, while Johnson county's rate would have increased by only a few hundredths and, with rounding, still remain 6.0 deaths per 1,000 population. Therefore, one must use caution when comparing rates of vital events between counties of extreme population size differences to avoid misleading conclusions.

Technical Notes (Cont.)

Limitations of Pregnancy Outcome Data

From July, 1970 through June, 1995, only hospitals in Kansas were required by K.S.A. 65-445 to keep and submit to the Secretary of the Department of Health and Environment written records of all pregnancies terminated in the hospital. During this reporting period, nonhospital providers reported terminations only on a voluntary basis. Although Kansas had a comprehensive coverage of providers, there could have been a small number of abortions not reported. This means that the data may have been, to a certain degree, underreported. However, effective July 1, 1995, the Kansas legislature amended K.S.A. 65-445 in Senate Bill 384 to broaden the record-keeping and reporting requirement to include every medical care facility and every person licensed to practice medicine and surgery.

Criteria for the Adequacy of Prenatal Care Utilization (APNCU) INDEX.

I. Month prenatal care began (Adequacy of Initiation of Prenatal Care)

Adequate Plus: 1st or 2nd month

Adequate: 3rd or 4th month

Intermediate: 5th or 6th month

Inadequate: 7th month or later, or no prenatal care

II. Proportion of the number of visits recommended by the American College of Obstetricians and Gynecologists (ACOG) received from the time prenatal care began until delivery (Adequacy of Received Services)

Adequate Plus: 110% or more

Adequate: 80% - 109%

Intermediate: 50% - 79%

Inadequate: less than 50%

III. Summary Adequacy of Prenatal Care Utilization Index

Adequate Plus: Prenatal care begun by the 4th month and 110% or more of recommended visits received

Adequate: Prenatal care begun by the 4th month and 80% - 109% of recommended visits received

Intermediate: Prenatal care begun by the 4th month and 50% - 79% of recommended visits received

Inadequate: Prenatal care begun after the 4th month or less than 50% of recommended visits received

The bibliographic reference relating to this index is: Kotelchuck, Milton. "An Evaluation of the Kessner Adequacy of Prenatal Care Index and a Proposed Adequacy of Prenatal Care Utilization Index.", *American Journal of Public Health*, 1994; 84(9): 1414-1420.

Handling of Unknowns. Items for which no response was provided are shown as "not stated" (N.S.) in the tables and graphs throughout this publication. To ensure the accuracy of the data, the "not stated" have been removed from totals when calculating percentages.

DEFINITIONS

The following terms, formulas and symbols are defined for more meaningful interpretations of the data contained in this report.

Abortion (induced termination of pregnancy):	The purposeful interruption of pregnancy with the intention other than to produce a live-born infant or to remove a dead fetus and which does not result in a live birth.
Adequacy of Prenatal Care Utilization (APNCU) Index:	An assessment of the adequacy of prenatal care measured by the APNCU Index (often referred to as the Kotelchuck Index), a composite measure based on gestational age of the newborn, the trimester prenatal care began, and the number of prenatal visits made.
Annulment:	The invalidation of a marriage contract.
Birth Weight:	The weight of the fetus or infant at the time of delivery.
Cause of Death:	The underlying cause of death, or that condition giving rise to the chain of events leading to death.
Congenital Anomalies:	Defects existing at and usually before birth regardless of causation.
Divorce:	The dissolution of a legally binding marriage contract.
Fetal Death:	Any complete expulsion or extraction from its mother of a product of human conception, the weight of which is in excess of 350 grams, irrespective of the duration of pregnancy, resulting in other than a live birth, and which is not an induced termination of pregnancy.
Hebdomadal Death:	The death of a live-born infant which occurs prior to the seventh day of life.
I.C.D. Code:	The cause-identifying number classified in the Tenth Revision of the <u>International Classification of Diseases</u> implemented by NCHS for deaths in 1999.
Infant Death:	The death of a live-born infant which occurs within the first year of life.

DEFINITIONS (Cont.)

Live Birth:	The complete expulsion or extraction of a product of human conception from its mother, irrespective of the duration of pregnancy, that, after such expulsion or extraction, shows any evidence of life such as breathing, heartbeat, pulsation of the umbilical cord, or voluntary muscle movement, whether or not the umbilical cord has been cut or the placenta attached.
Low Birth Weight:	Weight of a fetus or infant at delivery which is under 2,500 grams (less than five pounds, 8 ounces).
Marriage:	The legal union of a male and female.
Marriage Dissolution:	A marriage dissolved by either a divorce or an annulment.
Maternal Death:	The death of a mother caused by complications of pregnancy, childbirth and the puerperium.
Medical Procedure I:	Refers to use of the drug mifepristone as a pregnancy termination procedure.
Medical Procedure II:	Refers to use of the drug methotrexate as a pregnancy termination procedure.
Natural Increase:	Live births minus total deaths of a population within a given year.
Neonatal Death:	The death of a live-born infant which occurs prior to the twenty-eighth day of life.
Occurrence Data:	Vital statistics compiled on the basis of where the vital event happened.
Out-of-Wedlock Birth:	A birth occurring to a mother who is not married at the time of conception or at the time of birth or at any time between conception and birth.
Peer Group:	A group of counties with similar population densities in persons per square mile, as adopted by the Kansas Department of Health and Environment, Office of Local and Rural Health.
Perinatal Period III Death:	The aggregate total of fetal deaths (fetus weighs over 350 grams) and hebdomadal deaths (deaths that occur prior to the 7th day of life).

DEFINITIONS (Cont.)

Population Density:	The average number of inhabitants per square mile.
Prenatal Care:	Pregnancy-related health care services provided to a woman between conception and delivery.
Previous Pregnancy:	Includes all previous reported spontaneous Terminations, previous induced abortions, children born still living and children born now dead.
Puerperium:	Period of time after delivery, usually six to eight weeks, during which all maternal reproductive organs return to the normal pre-pregnancy condition.
Residence Data:	Vital statistics compiled on the basis of the usual place of residence of the person(s) to whom the vital event occurred.
Teenage Pregnancy:	A live birth, fetal death or abortion occurring to a female under 20 years of age.
Trimester:	A three-month period of time. First trimester care, for example, refers to care initiated in the first three months of pregnancy.
Very Low Birth Weight:	Weight of a fetus or infant at delivery which is under 1,500 grams (less than 3 pounds, 5 ounces).
Weeks Gestation:	The number of weeks between the last reported normal menses and the delivery of the fetus or infant.

RATES AND RATIOS

Abortion Ratio:	$\frac{\text{induced abortions}}{\text{live births}}$	x 1,000
Age-Adjusted Death Rate:	$\frac{M_a P_a}{P}$	x 1,000 or 100,000
Where	M_a = age-specific death rate per 1,000 or 100,000 population for a given age-group	
	P_a = standard population in a given age-group	
	P = total standard population	
Age-Specific Death Rate:	$\frac{\text{deaths in a specific age-group}}{\text{population in a specific age-group}}$	x 1,000
Age-Specific Fertility Rate:	$\frac{\text{live births in a specific age-group}}{\text{female population in a specific age-group}}$	x 1,000
Birth Rate:	$\frac{\text{live births}}{\text{total population}}$	x 1,000
Cause-Specific Death Rate:	$\frac{\text{cause-specific deaths}}{\text{total population}}$	x 100,000
Death Rate:	$\frac{\text{total deaths}}{\text{total population}}$	x 1,000
Divorce Rate:	$\frac{\text{divorces}}{\text{total population}}$	x 1,000
Marriage Dissolution Rate:	$\frac{\text{divorces and annulments}}{\text{total population}}$	x 1,000
Fertility Rate:	$\frac{\text{live births}}{\text{female population 15-44}}$	x 1,000
Fetal Death Rate:	$\frac{\text{fetal deaths}}{\text{live births + fetal deaths}}$	x 1,000
Hebdomadal Death Rate:	$\frac{\text{hebdomadal deaths}}{\text{live births}}$	x 1,000
Infant Death Rate:	$\frac{\text{infant deaths}}{\text{live births}}$	x 1,000
Marriage Rate:	$\frac{\text{marriages}}{\text{total population}}$	x 1,000

RATES AND RATIOS (Cont.)

Maternal Death Rate:	$\frac{\text{maternal deaths}}{\text{live births}}$	x 10,000
Natural Increase Rate:	live birth rate minus total death rate	
Neonatal Death Rate:	$\frac{\text{neonatal deaths}}{\text{live births}}$	x 1,000
Out-of-Wedlock Birth Ratio:	$\frac{\text{out-of-wedlock births}}{\text{live births}}$	x 100
Perinatal Period III Death Rate:	$\frac{\text{perinatal period III deaths}}{\text{live births} + \text{fetal deaths}}$	x 1,000
Teenage Pregnancy Rate:	live births, fetal deaths, abortions for females <u>in a specific age-group</u> female population in a specific age-group	x 1,000
Years of Potential Life Lost Rate	$\frac{\text{years of potential life lost}}{\text{population}}$	x 1,000

SYMBOLS AND ABBREVIATIONS

n.s.	not stated
n.a.	not available
n/a	not applicable
0.0	quantity or percent more than zero but less than 0.05.